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Education: *Reference Materials: Secondary Grades

IDENTIFIERS

ESEA Title III

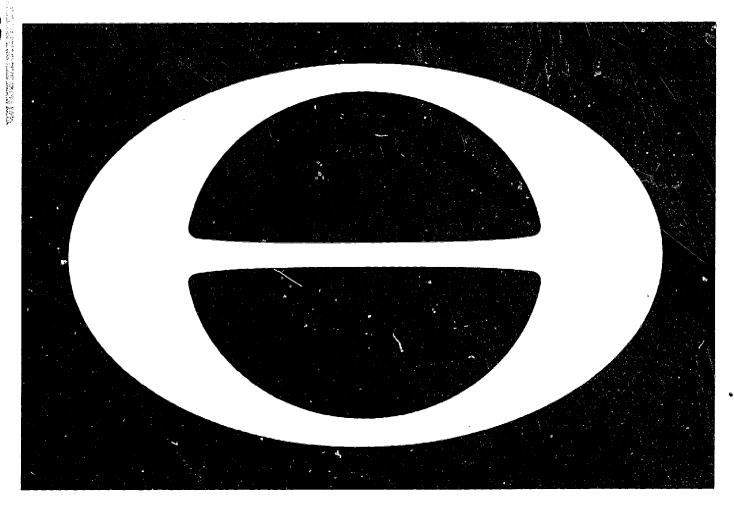
ABSTRACT

Prepared for the use of elementary and secondary school teachers, this catalog is designed to provide information about environmental education materials which will aid in classroom presentations and in curriculum development. Subject areas cover conservation and natural resources, ecology and ecosystems, environmental action and survival, environmental laboratories, mapping, outdoor education, pollution, the urban environment, and wildlife environments. Items indexed and annotated are coded as to curriculum guides, pamphlets, charts and posters, paperback books, 16mm films, sound filmstrips, environmental games, reference books, magazines and journals, geographical survey maps, picture stories, records and tapes, and slides. This work was prepared under an ESEA Title III contract for Project Outreach, Phoenix, Arizona. (BL)

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ENVIRONMENTAL



EDUCATION

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ENVIRONMENTAL EDUCATION

RESOURCE CATALOG

prepared by

Project Outreach

in cooperation with

Phoenix Union High School System

and

Phoenix Area Elementary School Districts



Introduction

This catalog has been prepared for the use of elementary and secondary school teachers in the city of Phoenix. It is the first attempt in Phoenix to provide for educators a comprehensive resource center dealing with environmental education materials. The Environmental Education Resource Center is designed to provide teachers with material which will aid in classroom presentations and in curriculum development.

Teachers may request material from the <u>Environmental Education Resource</u>
Center on a loan basis.

The Resource Center is funded through ESEA Title III and is administered under Project Outreach, an Environmental Education program of the Phoenix Union High School System. We encourage your use of the material in this catalog and hope that it will be of value.



How To Order Material

Material from this catalog may be ordered by calling the Environmental Education Resource Center, located at the District Service Office of the Phoenix Union High School System, at 252-3911 Ext. 275.

Give the following information:

- 1. Name
- 2. District
- 3. School
- 4. Title of material
- 5. Date requested
- 6. Alternate request date

Material you request will be delivered to you at your school via the inter-school mail system which links the Phoenix Union High School System with your district. Please return this material on the date requested by way of the inter-school mail delivery.

Project Outreach asks that you take care in properly maintaining all material so that it will be in good condition for others to use. PLEASE SEE THAT MATERIALS ARE RETURNED COMPLETE AND ON THE SCHEDULED DUE DATE.



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KEY

Code	A	220,20	Curriculum Guides
Code	В	w	Pamphlets
Code	С		Charts and Posters
Code	D		Paperbacks
Code	Ε	*****	16MM Films
Code	F		Sound Filmstrips
Code	G		Environmental Games
Code	Н		Reference Books
Code	J		Magazines and Journals
Code	M		Geographical Survey Maps of Arizona
Code	P		Picture Stories
Code	R		Records and Tapes
Code	s		Slides



Cat. No.	<u>Description</u>
A066	Art and Conservation Teaching to Improve Man's Environment Indiana State Department of Public Instruction. A resource guide.
P35	Common Rocks Singer SVE 1. Sedimentary Rocks 5. Calcite Minerals Calcite Minerals Feldspar Minerals Calcite
F07 0	Coniferous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic charac- teristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.
F004	Conservation for Beginners Singer SVE Educational. Easy-to-read filmstrips. Teacher's guide. 1. The Lamb and the Blue Bells 2. A Picnic for Dick and His Friends 3. The Deer and the Haystack 4. The Muddy Raindrops 5. Sonny Squirrell and Pine Trees 6. Forests for the Future
В067	Conservation Everyone's Job Copyright 1970. J. Weston Walch, Publisher. Christobel Cordell. A guide book for teaching conservation of human resources, air, water, soil, forests, minerals, fisheries, and wildlife. Grades K-12.
F007	The Conservation of Our Resources Eye Gate. Teacher Guide. Filmstrips and recordings. 1. This Land of Ours 2. The Waste of Our Resources 3. The Need for Conservation 4. Water and Its Conservation 5. Soil and Its Conservation Resources And recordings. 6. The Conservation of Our Forests 7. The Conservation of Wildlife 8. The Conservation of Minerals 9. The Conservation of Human Resources
F 0 36	Singer, SVE. A comprehensive look at the importance of conserving natural resources, including the two vital areas of current concernurban and land conservation. It takes a seroues look at what can be done to resolve the problems. Full-color filmstrips. Inter-Jr. High Set of 7 filmstrips and 4 records. 1. Soil Conservation Today 2. Forest Conservation Today 3. Water Conservation Today 4. Wildlife Conservation Today 5. Mineral Conservation Today 6. Urban Conservation Today 7. Land Conservation Today



Cat. No.

Description

F008

Conserving Our Natural Resources

Through photographs and diagrams, the students see visual definitions of conservation; how an ear of corn needs a barrel of water to grow, how forest fires destroy life, how soil turns into mud and dust, how uranium and plastics may replace the nonrenewable energy of coal. Teacher's guide. Filmstrip series.

- 1. What is Conservation
- 5. Using Our Forests Wisely

2. Saving Our Soil

- 6. Giving Our Wildlife a Chance
- 3. Enough Water for Everyone
- 7. Using Our Minerals Wisely
- 4. Improving Our Grasslands

F069

Decidous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic

characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.

animal life. Super 6 cartridge color film-loop

A080 Earth Corps Ecology/Conservation Study Kit
Scholastic Book Services. The pupil is introduced to the science
of ecology. In clear and simple yerms he is shown how all living
things are inter-related to their environment. Kit includes:
student activity books, transparencies, wall chart, and teaching
manual. Kit II for grades 3-4. Kit II--EARTH IS OUR HOME.

180A

Earth Corps Ecology/Conservation Study Kit
Scholastic Book Services. Continues in greater depth the study
of the interdependence of animals and plants. The students look
at some of the things that man has done to change his environment.
Kit includes: student activity books, transparencies, wall chart,
and a teaching manual. Kit III for grades 5-6. Kit III--SHARING
THE EARTH.

DO27

Environmental Conservation

Copyright 1959, 1968. Published by John Wiley and Sons, Inc. By Raymond F. Dasmann. This book is an attempt to look at our environment and human problems from the viewpoint of conservation. It is an attempt to provide a factual basis on which action to improve the environment can be taken.

D016

Face of North America

Copyright 1963. Harper and Row, Publishers. Peter Farb. This book is about the remarkable diversity of landscapes on the North American continent and the forces that produced them. The first section outlines geological processes that shaped the continent, the second is concerned with the seacoasts, the third deals with water falling upon the land, the fourth section is on mountains, and forests are discussed in the fifth section.



Cat. No.

Description

- HOO8 A Field Guide to Rocks and Minerals
 Copyright 1953, 1955, 1960. Published by Houghton Mifflin Company.
 By Frederick H. Pough. An authoritative guide to the identification of rocks and minerals in the field.
- S005 Forest Resources
 J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
- BO23 Free and Inexpensive Materials for Teaching Conservation
 Published by North Louisiana Supplementary Education Center. FORESTS
 Its purpose is to provide teachers with information about possible sources of teaching materials that can be obtained free or with only a small expenditure of funds.
- BO24 Free and Inexpensive Materials for Teaching Conservation
 Published by North Louisiana Supplementary Education Center. SOILS
 AND WATER. Its purpose is to provide teachers with information
 about possible sources of teaching materials that can be obtained
 free or with only a small expenditure of funds.
- BO25 Free and Inexpensive Materials for Teaching Conservation
 Published by North Louisiana Supplementary Education Center. WILDLIFE AND FISH. Its purpose is to provide teachers with information
 about possible sources of teaching materials that can be obtained
 free or with only a small expenditure of funds.
- Guide to Environmental Education
 Published by the Conservation Committee of the Madison Public Schools,
 Madison, Wisconsin. Conservation of natural resources. Teachers
 are encouraged to develop teaching concepts in six major areas: soil,
 water, minerals, wildlife, plants, and recreation. Teachers can
 integrate conservation attitudes, appreciations, and basic understandings in science, social studies, and language arts, and other subject
 fields. Grades K-6.
- A017 A Guide for Teaching Conservation and Resource
 Use education in the schools of Louisiana. Forest Section. A guide for teaching conservation.
- A018 A Guide for Teaching Conservation and Resource
 Use education in the schools of Louisiana. Soil and Water. A guide
 for teaching conservation.
- P34 Important Minerals Singer SVE
 - 1. Copper Minerals
 - 2. Native Gold
 - 3. Iron & Manganese
 - 4. Lead & Zinc Minerals
- 5. Tin & Aluminum
- 6. Uranium Minerals
- 7. Nickel, Titanium, Molybdenum, & Tungsten
- 8. Salt & Sulpher



<u>Cat. No</u> .	Description
S009	Important Minerals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
A020	Integrating Conservation and Outdoor Education into the Curriculum Copyright 1965. Published by the Burgess Publishing Company. By William Stapp. Answers the questions of how we can best integrate an adequate program of conservation into a public school program. (Kindergarten through 12)
A026	Man in His Environment Copyright 1969. San Diego City Schools. Unit on conservation for grade 6. This unit is designed to encourage and promote commitment and motivation through direct, meaningful involvement.
B031	Management of Your Southwestern National Forests United States Department of Agriculture. William D. Hurst. To give a better understanding of forest service management. A brief summary for each zone, explaining the management objectives and direction for that unit.
SOLLB	Minerals and Metals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
DO18	Natural Resources and the Political Struggle
DO19	Natural Resources for United States Growth Copyright 1967. Johns Hopkins Press. By Hans Landsberg. By the year 2000, America may have a population of more than 325 million people. Can their needs for food, clothing, shelter, and all of the goods and services that determine their level of living be met at no significant increase in cost? This book describes in brief and simplified form how Resources for the Future, Inc., sought to answer this question.
DO34	One Third of the Nation's Land By the Public Land Law Review Commission. A report to the President and to the Congress by the Public Land Law Review Commission. June, 1970.
B066	Our Forest and You Western Wood Products Association, Portland, Oregon. 1. Facts About Ponderosa Pine 2. Facts About Sugar Pine 3. Facts About White Fir 4. Facts About Englemann Spruce 7. Facts About Incense Cedar 8. Facts About Western Red Cedar 9. Facts About Douglas Fir of the



5. Facts About Western Larch

Western Wood Region 10. Facts About Lodgepole Pine

<u>Ca</u>	<u>t. No</u> .	Description
	A032	Our Natural Resources Union County Outdoor Education Center. A follow-up material concerning our natural resources.
	D035	Quest for Quality United States Department of the Interior Conservation Yearbook. Published by the United States Department of the Interior, Office of Secretary.
	Gl2	Ranger Rick and the Great Forest Fire National Wildlife Federation. Grades 2-4.
	G13	Ranger Rick's Color by Number National Wildlife Federation. Can be duplicated for classroom use.
	88сн	Reading the Woods Copyright 1969. Stackpole Company. By Vinson Brown. More surely than a palmist reads a lifeline, woods walkersor those passing by carcan read the past, present, and a great deal about the immediate future of a given forest area with these explicit directions for finding and understanding the clues left by nature and man.
	АОЦ8	Readings in Wildlife and Fish Conservation By Louisiana Wildlife and Fisheries Commission. A study designed for an experimental high school course.
	B050	Resource Conservation Glossary Soil Conservation Society of America. A soil and water conservation glossary.
	S013	Rocks J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
	F092	The Role of Trees in the Environment Imperial Film Company, Inc. This series provides the classroom with a serious photographic essay on the tree as a life form. The tree, rather than smaller plants, was chosen because the widespread geogra- phic distribution of the trees is not confused by a widely varying basic structure. Inter-Jr. High. 4 filmstrips, 4 records. 1. Trees: Earth's Largest Life Forms 2. The Life Cycle of Trees 3. Trees and Physical Environment 4. Trees and Living Environment
	A050	Science and Conservation in the Field J. Weston Walch, Publisher. Harold Hungerford. To help the teacher plan and execute science instruction in the field.

ERIC
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Cat. No.	<u>Description</u>
A067	Soil Conservation United States Department of Agriculture. Outdoor learning at school. August, 1970.
SOTI	Soil Conservation J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
AO53	Teaching Conservation United States Department of Agriculture, Soil Conservation Service. United States Government Office, 1966. An outline for teaching conservation to elementary students. Grades 1-8.
A054	Teaching Soil and Water Conservation United States Department of Agriculture, Soil Conservation Service. United States Government Office, 1964. A classroom and field guide to showing how to conserve soil and water. Shows detailed experiments. Jr. High Level.
A076	The Third Wave United States Department of the Interior Conservation Yearbook. This conservation yearbook series format constitutes both the annual reports and the special reports to the nation which have been published in previous years by the Department of the Interior.
F054	Trees Urban Ecology Series. Ealing Corporation. Each film-loop in this series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop.
S015	Trees J. Weston Walch, Publisher. Portland Maine. Slides with teacher's guide.
Cll	Trees of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of trees in North America with a brief description of each tree.
S017	Water Conservation J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
H082	What's Ahead for Our Public Lands? Copyright 1970. Natural Resources Council of America. A summary review of the activities and final report of the Public Land Law Review Commission. Compiled for the Natural Resources Council of America by Hamilton K. Pyles.

Description Cat. No. Above the Timberline FOOl McGraw-Hill Company. Alpine Plants. Magi-cartridge. Super 8mm F023 An African Essay Guidance Associates, Ann Morrow Lindberg. Brings students into immediate contact with nature and life as an intricately balanced system. 2 filmstrips with records and teacher's guide. F073 Alpine Tundra Ecology of the United States Series. Ealing Corporation. What does the tundra look like? What kinds of plants survive the Artic winter? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop. F072 American Desert Ecology of the United States Series. Ealing Corporation. Why are there so many snakes in the desert? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop. F071 American Prairie Ecology of the United States Series. Ealing Corporation. What characteristics does an animal need to survive on the prairie? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop. S003A Biology of the Desert J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide. B006 Botany Copyright 1970. Published by Western Publishing Company. By Vera R. Webster. Gives a clear, overall picture of the complex kingdom with its 350,000 known species. Tells life histories of major plants. Illustrated. H027 Communities and Ecosystems Published by the Macmillan Company. Robert H. Whittaker. The study



formed by communities and their environments.

of living systems in relations to environment is the science of ecology. Much ecological understanding can be integrated around the concepts of communities as assemblages of different species which interact with one another, and ecosystems as a functional system

Description Cat. No. Conservation: Man Helps Young Turtles F088 The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop. Coral Reef Community F080 The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop. Deep Sea Diving: Exploring the Undersea World F078 The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop Earth Corps Ecology/Conservation Study Kit 080A Scholastic Book Services. Kit II --- EARTH IS OUR HOME. The pupil is introduced to the science of ecology. In clear and simple terms he is shown how all living things are inter-related to their environment. Kit includes: student activity books, transparencies, wall chart, and teaching manual. Kit II for grades 3-4. Earth Corps Ecology/Conservation Study Kit 180A Scholastic Book Services. Kit III SHARING THE EARTH. Continues in greater depth the study of the interdependence of animals and plants. The student looks at some of the things that man has done to change his environment. Kit includes: student activity books, transparencies, wall chart, and a teaching manual. Kit III for grades 5-6. FOLO The Ecological Crisis Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating

Some Ecological Considerations 6. Pollution

1. Population Statistics

Population Trends

discussions. Set of 6 filmstrips, 3 records, 6 guides. Jr.-Sr.High

4. Evolution and Extinction

Pesticides

Cat. No.

Descriptions

F091 Ecological Systems

> Imperial Film Company, Inc. These four filmstrips cover the four most-often studied ecological systems. Pictures were gathered over a period of more than a year, in places ranging thousands of miles from one another. Set of 4 filmstrips, 2 records. Inter-Jr.-Sr. High.

- 1. Ecology of a Seashore
- Ecology of a Pond
- Ecclogy of a Forest
- 4. Ecology of a Desert

A009 Ecology

Union County Outdoor Educational Center. Follow-up material concerning ecology with suggested classroom activities.

GO7C Ecology

Published by Urban Systems. Ecology gives you a chance to start the world all over again. You guide your own population group through the four ages of mankind's development: Hunting, Agricultural, Industrial, and Environmental. You'll expand your population, develop new inventions, acquire new lands and wrestle with the crisis that threaten to engulf your civilization. Ecology challenges each player to bring his population, his technology, and his natural environment into a workable balance.

Ecology Activity Book--We Need Each Other A087

Scholastic Book Service. In large, easy-to-read type and short, simple sentences. This book introduces the child to the basic concept of ecology -- the interdependence of all forms of life and the balance of nature. Teacher instructions in small type at the bottom of the page. Instructions also serve as a guide to parents who may wish to help the child at home. For grades 1-2.

D007 Ecology--Life, Struggle, Survival

Copyright 1970. Addison-Wesley Publishing Company. L. McCombs, N. Rosa. An introductory study of the science of ecology. Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with revelance for today's concerned students. Grades 7-8.

F009 Ecology and Man

Series I. McGraw-Hill. Filmstrips with teacher's guide.

- 1. Introduction to Ecology 4. Energy Relationship
- 2. Changes in Ecosystems
- 5. Habitats and Niches
- 3. Adaptations to Environment
- 6. Populations and Biomass

FOLO Ecology and Man

Series II. McGraw-Hill. Filmstrips with teacher's guide.

- 1. The Forest Biome Part I
- 4. The Desert Biome
- 2. The Forest Biome Part II
- Fresh Water Ecology
- 3. The Grassland Biome
- 6. Seacoast Ecology



Cat. No.	Description
FO11	Ecology and Man Series III. McGraw-Hill. Filmstrips with teacher's guide. 1. The Management of Soil 4. Human Ecology 2. The Management of Water 5. The Ecology of Farming 3. Competitive Land Use 6. Man-Managed Ecosystems
DO S14	Ecology of Populations Copyright 1968. Published by Macmillan Company. Arthur Boughey. Leads from environmental requirements through population dynamics to community organization and evolution. It concludes with a chapter on human ecology. Designed for students who are being exposed to the topics of life science and biology for the first time.
co3	Ecology Poster Cards Milton Bradley Company. Giant, ll'a" x ll.". Ecology Poster Cards are designed to stimulate the student's thinking. For large or small group presentations. For teaching children how to observe, select and conserve the components of our environment. With teacher's guide. For elementary grades.
НО89	Ecology and Resource Management Copyright 1968. McGraw-Hill Company. Kenneth E. Watt. The field of resource management has tended to fragment, and there is inadequate exchange of principles, theories, methods, and ideas about data pro- cessing and interpretation techniques among the various professional groups of resource managers. This book is intended to remedy this situation by providing a text for courses that cut across disciplinary lines and consider all resources on a comparative approach.
FO12	Ecology Series McGraw-Hill. Filmstrips with teacher's guide. 1. Physical Environment 4. Pond as a Community 2. The Forest as a Community 5. The City as a Community 3. The Field as a Community 6. Ecological Succession
F030	The Environment of Man Educational Coordinates. An introduction to ecology. Teacher's guide. 4 filmstrips and recrods.
D005	Environments of Man



B021

Estuaries--America's Most Vulnerable Frontiers

Jack B. Bresler.

Copyright 1959. Published by the National Wildlife Federation. Will Johns. Gives the reader basic knowledge of estuaries.

Copyright 1968. Published by Addison-Wesley Publishing Company. By

Cat. No.

Description

F074 Everglades

Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator—man. Super 8 cartridge color film—loop.

F089 Fishes

The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.

FOLL Forest Community Series

McGraw-Hill. Filmstrips with identification within the filmstrip. Teacher's guide.

- 1. Building the Soil
- 2. Forest Plant and Animal Relationships
- 3. Enemies of the Forest
- 4. How Trees Grow
- 5. Where Trees Grow
- 6. Forests for the Future

F090 Giants of the Deep: Whale Behavior

The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.

DO17 Great Chain of Life

Copyright 1956. Pyramid Publication, Inc. Joseph Wood Krutch. How did it begin? What has gone before? Where will it lead? These are questions which have fascinated man for thousands of years. Joseph Krutch looks at evolution with a fresh eye. He reveals many surprises and wonders in the natural world around us. The Great Chain of Life is an important, delightful addition to man's understanding of ecology—the interrelation of living things—and the biological world in which we live.

CO7 Instructor Ecology Series

Instructor Publications, Inc. By Clifford E. Knapp. Poster was designed for use by teachers and pupils of elementary grades.

G20 Interdependence

Earthstation 7. A game of ecological relationships.

Cat. No.

Description

- FO15 Interdependence of Living Things
 - McGraw-Hill. Filmstrips with teacher's guide.
 - 1. Introduction to Ecology 4. The Web of Life
 - 2. Animal and Plant Communities: 5. Animal and Plant Communities: Forest Pond
 - 3. Animal and Plant Communities: 6. Animal and Plant Life
 Field Communities: City
- Investigating Predatory Behavior
 The Undersea World of Jacques Cousteau Series. Ealing Corporation.
 Oceans cover more than 70% of the earth's surface. They contain
 vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine
 the quality of the lives of future generations. Super 8 cartridge
 color film-loop.
- The Undersea World of Jacques Cousteau Series. Ealing Corporation.

 Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
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 Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
- Investigating Territorial Behavior

 The Undersea World of Jacques Cousteau Series. Ealing Corporation.

 Oceans cover more than 70% of the earth's surface. They contain

 vast resources of food and ocver untold mineral riches. Life ori
 ginated in the sea, and our attitude towards the sea will determine
 the quality of the lives of future generations. Super 8 cartridge
 color film-loop.
- FO50 Let's Explore the Desert

 Exploring the World of Nature Series. Group 2. Singer SVE. An
 ecological approach to nature study. Plant/animal survival. Man's
 effects on desert life. 51 frames. Inter-Jr. High.
- FO49 Let's Explore the Dunes

 Exploring the World of Nature Series. Group 2. Singer SVE. An
 ecological approach to nature study. Dune formation and movement.
 Plant effects on dunes and animal survival in sand. 51 frames.
 Inter-Jr. High.



Cat. No.	Description
FO41	<pre>Let's Explore a Field Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Animal and plant life in natural settings. Winter shelter, food. Inter-Jr. High.</pre>
F0Ц2	Let's Explore a Garden Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Life in a garden. 48 frames. Inter-Jr. High.
FO43	Let's Explore a Lawn Exploring the World of Nature Series. Group 1. Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High.
FОЦЦ	Let's Explore a Pond Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Plant and animal life in a pond. 50 frames. Inter-Jr. High
F052	Let's Explore a Salt Marsh Exploring the World of Nature Series. Group 2. Singer SVE. Plant and animal adaptations to salt marsh. How salt marshes differ from other grasslands. 49 frames. Inter-Jr. High
F051	Let's Explore the Shore Exploring the World of Nature Series. Group 2. Singer SVE. An ecological approach to nature study. Seashore life. Tidal zones for plants/animals; tidepool life. 51 frames. Inter-Jr. High.
F045	Let's Explore a Stream Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. Plants and animals of various habitats. Pollution damage. 50 frames. Inter-Jr. High.
F046	Let's Explore a Woodland Exploring the World of Nature Series. Group 1. Singer SVE. An ecological approach to nature study. 47 frames. Inter-Jr. High.
но46	The Life of the Desert Copyright 1966. Published in cooperation with the World Book Encyclopedia. By Ann and Myron Sutton. This volume explains the vital interrelationships that exist between living things and the physical envionment of vast desert regions. Over 1,000 color illustrations.



Cat. No.

Description

- GOGE Life From Death
 Copyright 1970. Published by Urban Systems. Environmental Game.
 About the contribution of wastes to the survival of life on earth
 in terms of recycling of nutrients throughout the food web. Experiments involve testing the gases animals and plants give off, and
 testing soil components for acidity and retention of water and
 dissolved nutrients. The problems of pollution from human wastes
 are discussed and some solutions for waste disposal are offered.
- Good Life in the Water
 Copyright 1970. Published by Urban Systems. Environmental Game.
 About the essential food sources for aquatic life: tiny plant and animal plankton, their nutrition and survival. Designed to investigate nearby bodies of water: ponds, lakes, streams, ocean.
 Equipment includes a plankton net to gather living samples. If a microscope is available, the tiny plant and animal discovered in the water can be compared to pictures in the booklet.
- S007 Lower Plants
 Group 1. J. Weston Walch, Publisher. Portland, Maine. Slides
 with teacher's guide.
- SOC? Lower Plants
 Group 2. J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
- Man in his Environment--Ecology Kit

 By the Coca-Cola Company. First, to help children become more
 aware of their environment; second, to help children appreciate
 their interdependence with their environment and; third, to help
 children realize that as human beings, they can make decisions
 which effect their environment for better or worse.
- Man, Medicine, and Environment
 Copyright 1968. Frederick A. Praeger, Publisher. By Rene Dubos.
 In clear, non-technical language, Dr. Dubos analyzes the complex
 interrelationships that govern man's life today and the effect of
 environmental factors on the health of both primitive and modern
 man.
- F075 Mangrove Swamp

 Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.



Description Cat. No. Modern Biology: Environment and Survival F038 Group 1. Singer SVE. An excellent opportunity for students to study how living things relate to their environment. This series stresses the "new" ecological biology approach through brilliant full-color photos of plants and animals in their natural habitats. Jr-Sr High. Set of 4 filmstrips, 2 records, 4 guides. 1. Life in Relation to Environment 3. Life in Two Subtropical 2. Life in the Forests Communities Life on Grasslands & 4. Prairies Modern Biology: Environment and Survival F039 Group 2. Singer SVE. Explains animal-environmental interdependence plant/animal communities, importance of biotic and abiotic conditions such as topography, rainfall, and intra-species competition. Jr.-Sr. High. Set of 4 filmstrips, 2 records, and 4 guides. 1. Life in a Sand Dune Succession 3. Life in an Alpine Environment 2. Life in a Bog h. Life in a Fallen Log: Microcommunity A New Look at Elementary School Science DO33 Copyright 1967. Rand McNally and Company. By Robert Karplus and Herbert D. Thier. A086 Oceanography: Environmental Approach to Marine Science Oceanography Unlimited, Inc., 1970. Curriculum guide for studying ocean environment. High school grade level. A030 Ornithology and Botany Union County Outdoor Educational Center. Follow-up material concerning birds and plant life. FO31 Our Environment Group 1. Fresh water communities: streams, rivers, ponds, and lakes. Copyright 1970. By J. Donald Meyer. Teacher's guide with 4 records and 2 charts which illustrate the water and nitrogen cycles. F016 Our Land and Its Story Singer SVE Educational Filmstrip. Illustrate and extend the elementary social studies curriculum with their colorful presentations of important aspects of our country's background and culture. These filmstrips deal with the growth of American civilization amid the influences of geography and the elements of nature, highlighting the interdependence of man and nature. Interest level 1-4. Reading level 3.



A036

Biology. Copyright 1968, 1969. J. G. Ferguson Publishing Company.

People and Their Environment

By Cyril Busbee.

Description Cat. No. People and Their Environment A039 Science. Copyright 1968, 1969. J. G. Ferguson Publishing Company. By Byril Busbee. Grades 7-9. Plant Life in a Bog S012 J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide. F077 Pond Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of the water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator -- man. Super 8 cartridge color film-loop. G060 Predator Prey Published by Urban Systems. Environmental Game. About survival, food chains, food webs, and ecological balance. In the orm of a simulation game, in which small circles represent prey such as a rabbit or squirrel, and large circles represent predators, such as a lynx or wolf. Each person tries to be the best predator possible. He can then trace the changes in the predator prey populations under different circumstances, illustrating competition and natural selection. Copyright 1970. Production of Oxygen by Green Plants FO17 McGraw-Hill. Magi-cartridge. Super 8mm. Reproductive Behavior of the Turtle F086 The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude toward the sea will determine the quality of the lives of future generations. Super 8 cartridge

F076 River Ecology of the United States Series. Ealing Corporation. Your students will begin to sense the fragile balance which exists between the environment and its inhabitants when, for instance, the underwater camera follows the chain of life and death beneath the surface of water. It will become apparent that it is this balance which is so easily destroyed by earth's most dangerous predator--man. Super 8 cartridge color film-loop.

color film-loop.



Cat. No.

Description

- FO34 Role of Flowers and Fruits
 - Singer SVE. An in-depth look at common fruits and flowers demonstrates fundamentals of botany. Supplementary diagrams and artwork facilitate student comprehension. Special frames introduce vocabulary terms. 2 filmstrips, 1 record.
 - 1. Flowers: Their Parts and Functions
 - 2. Fruits: Their Growth and Classification
- F067 Sand

Backyard Ecology Series. Ealing Corporation. At the beach, is the sand as lifeless as it appears? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.

- DO23 Sense of Wonder
 - Copyright 1965. Harper and Row, Publishers. Rachel Carson. The author affirms her belief that those who live with the mysteries of earth, sea, and sky are never alone or weary of life. She would endow every child with a "sense of wonder so indestructible that it would last throughout life."
- F085 Shark Feeding Frenzy

The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.

- The Struggle for Survival: Hatching Turtles

 The Undersea World of Jacques Cousteau Series. Ealing Corporation.

 Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop.
- H060 The Subversive Science
 Copyright 1967. By P. Shepherd and D. McKinley. A collection of
 essays towards an ecology of man. Each of the 36 essays presented
 has something important to say about man's relationship to nature,
 not just as it has been but as it is now and will be.
- A052 A Syllabus for an Introduction to Ecology for Elementary Teachers
 Published by Southeastern Pennsylvania Outdoor Education Center. A
 course of study for undergraduate students in outdoor education.



Description Cat. No. D051 Understanding Ecology By E. F. Bellington Understanding Oceanography FO37 Singer SVE. Students get a close look at methods used in studying the ocean and its basins. They learn the need for the utilizing the ocean's food and minerals. 6 filmstrips, 3 records, 6 guides. 1. Study of Oceans 4. Currents, Waves, & Tides 2. Ocean Basins Life on the Open Seas 5. 6. Life on the Sea Floor & Shore 3. Characteristics of Sea Water A059 Vacant Lot Studies Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathematics around the study of a vacant lot. Grades 5-9. FO18 Water Plants McGraw-Hill. Magi-Cartridge. Super 8mm. G06D What Moves Life Published by Urban Systems. Environmental Game. About the relationships of living things to physical factors in their environment. Experiments include testing the effect of light on plants and animals, the effect of gravity on roots and stems, the effect of temperature on the growth of plants and animals, the effect of moisture on the growth of plants, the effect of physical objects on the growth of plants. GO6A Why Are Leaves Green? Published by Urban Systems. Environmental Game. About plants and their green color in relation to light, phtosynthesis, plant survival, and related ecological issues. Experiments include the effect of light on green plants, and non-green plants, the separation of chlorophyll and other pigments by paper chromatography. Copyright 1970. F079 Wonders of the Coral Jungle The Undersea World of Jacques Cousteau Series. Ealing Corporation. Oceans cover more than 70% of the earth's surface. They contain vast resources of food and cover untold mineral riches. Life originated in the sea, and our attitude towards the sea will determine the quality of the lives of future generations. Super 8 cartridge color film-loop. F068 Tidepool Backyard Ecology Series. Ealing Corporation. What is left in the



ing the entire world. Super 8 cartridge color film-loop.

rocky pools when the tide goes out? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles govern-

ENVIRONMENTAL ACTION

Cat. No.	<u>Description</u>
HO19	Before Nature Dies Jean Dorst. One of the world's most distinguished zoologists treats the entire earth as a single unit, marking clear what must be done on an international scale if man's suicidal drive to destruction is to be halted.
ро48	Cleaning Our EnvironmentA Chemical Basis for Action Copyright 1969. American Chemical Society. An account of the current status of environment improvement and recommendations to accelerate the development of science and technology for environ- mental improvement.
A007	Community Action for Evnrionmental Quality The Citizen's Advisory Committee on Environmental Quality. United States Government Office. A guide for citizens who want to par- ticipate in practical action to make their community a better place to live in.
В067	Conservation Everyone's Job Copyright 1970. J. Weston Walch, Publisher. Christobel Cordell. A guide book for teaching conservation of human resources, air, water, soil, forests, minerals, fisheries, and wildlife. K-12.
B017	Discovering Your Environment Myron Chase. Purpose: to create involvement, understanding, and willingness to work and pay for environmental improvements.
J07	Ecology News Briefs Environmental Awareness Associates, Inc. A newsletter of environmental action and planning. Published monthly.
DO31	Environment and Change the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Offers realistic goals toward which urban planning may be directed if human society is to fulfill its need and capability for advancement.
J03	Environment Improvement Case History Report Service Freed Publishing Company. A report of environmental and ecological action programs undertaken around the nation! Monthly report.
DO32	Environment and Policy the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Steps to be taken to achieve man's optimum environment delineate the essential plans to be made in order to implement programs conceived, to personally involve the greatest number of people and to specify the leadership required.



ENVIRONMENTAL ACTION

Cat. No.	<u>Description</u>
B020	The Environment and What To Do About It United States Atomic Energy Commission
JOl	Environmental Action Bulletin Rodale Press, Inc. Weekly coverage of health, environmental and human ecology news.
DO30	The Environmental Handbook Copyright 1970. Garrett De Bell. Is our environment to be dealt with in these terms, or is it to be handed over to careless, unthinking development by those who think only of what it could yield to them today? Suggestions found in this handbook can become the source for our efforts. There's a planet that needs our help
D036	Environmental Health Planning Copyright 1971. Published by the United States Department of Health, Education, and Welfare Public Health Service. This book briefly describes environmental health problems and the need for planning, a description is offered of urban and regional planning, comprehensive health planning, and principles of program planning.
J05	Environmental Quality An important new magazine "dedicated to end pollution." Its weapon in the fight to save Earth: A thoughtful, compelling editorial product. Published quarterly.
Ј ОЏ	Land Pollution Reporter Freed Publishing Company. Publication serving public and private organizations with information on environment improvement by decreasing land pollution. Bimonthly report.
B041	Our National Environmental Quality Copyright 1969. Thomas L. Kimball. Reprinted from National Wildlife. An index of environmental quality. It measures what we have done and are doing to make our environment better.
DOF 3	Pollution Abstracts Volume 2, Number 1, February 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. It will fit the needs of readers interested in the current state of environmental actions. The interested citizen, student, and industrial or governmental planner. With indexes.
D050	Pollution Abstracts

With indexes.

Volume 2, Number 2, April 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. It will fit the needs of readers interested in the current state of environmental actions, the interested citizen, student, and industrial or governmental planner.

ENVIRONMENTAL ACTION

Description Cat. No. Preserving and Improving the Urban Environment Carl Feiss. One-half hour program. Distributed by Indiana University. R16B SO23 Recreation or Wreck-Creation Good Outdoor Manners Association (GOMA). A 25-minute program of 35 mm color slides with taped commentary presents the problems of abuse and damage to outdoor recreation areas and the costs to the taxpayer. Photographs of scenic beauty, animals, and geological formations. There are suggestions as to how damage can be avoided and what actions can be taken by individuals, organizations, or communities to protect recreation areas. R17 Truth in Packaging--Consumer Dilemma Week 1 Darin Sheldon, Ralph Nader's Public Interest Research Group. One-half hour program. Distributed by Indiana University. Tape Recording. B061 What Can You Do With Refuse? Caterpillar. Tells what we can do with refuse. Your can burn it, dump it, compost it, or you can make it a community asset. B059 What You Can Do About Water Pollution Federal Water Pollution Control Administration 1. Everybody can do something about water pollution Everybody can help to clean up dirty water 3. Everybody can help to keep clean water clean B060 What You Can Do To Improve Your Environment! Conservation & Environmental Science Center. Pamphlet listing ideas and addresses to write to in order to improve your environment. For all ages. B063 You and Your Lawmaker Published by the Shooting Sports, Inc. A citizenship manual for sportsmen. Sportsmen must take a more active interest in legislation affecting the broad field of outdoor recreation. Your Environment and What You Can Do About It H100 Copyright 1970. Walker & Co. Richard Saltonstall, Jr. This book tells you what you can do about air and water pollution, noise, chemical pollution, etc. It tells you what organizations you can apply to for more information, which government agencies to approach and what your legal rights are. This book provides a prescription for effective citizen action. Discovering Your Environment B017



willingness to work and pay for environmental improvements.

To create involvement, understanding, and

By Myron Chase. Purpose:

Cat. No.	<u>Description</u>
EOl	Africa's Vanishing Wildlife (E-J-H-C-A) Illustrates how many kinds of animals are able to live together in Africa's wildlife community, but how man's increasing pressure on the land threatens Africa's remaining wildlife regions. 16mm/15 mins./color Arthur Barr Productions, Incorporated
EO2	The Aging of Lakes After introducing geological and ecological factors of normal "aging" of lakes, the film zeroes in on how man is speeding up this natural processshowing examples of indiscriminate disposal of fertilizers, sewage, and industrial waste. 16mm/11 mins./color Encyclopaedia Britannica Educational Corp.
EO3	Air Pollution/Take a Deep, Deadly Breath Parts I, II & III (J-H) An important examination of the critical nature of the air pollution problem, a survey of the measures that have been taken to solve the problem and why they have failed. An ABC-TV Project 16mm/54 mins./color McGraw-Hill Films
EOl4	America and the Americans Parts I & II (J-H) Based on John Steinbeck's book and narrated by Henry Fonda, This comprehensive critique covers such contemporary areas as conser- vation, air pollution and the destructive use of natural assets. 16mm/51 mins./color McGraw-Hill Films
1005	Ark tells the story of one man's valiant attempt to keep alive a community of wild creatures native to a small pond, by enclosing the pond in a glass house which protects it from the polluted world outside. But other men cannot let him be, to labor peacefully; they violate and destroy his "Walden-under-Glass." 16mm/20 mins./color Arthur Barr Productions, Incorporated
E06	At Home, 2001 (H-C-A) Take a look at the brave new world in which man never needs to leave home. The family of the future lives by controlled light and temperature, works and markets from home, watches wall-size 3-D TV and has solved the maid problem with robots. 16mm/25 mins./color McGraw-Hill Films
E07	Autos and All That Traffic (H-C-A) Presents all aspects of situation, including: the problems traffic creates, air pollution, new cars to be developed, methods in accident prevention, and new highway planning. 16mm/25 mins./color McGraw-Hill Films
E08	Of Broccoli & Pelicans & Celery & Seals: (E-J-H-C-A) Our Vanishing Wilderness Series. Concerned with the Channel Islands off the coastal city of Santa Barbara, the film illustrates the effect that pesticides used on the Mainland have on the



Cat. No.

Description

- Of Broccoli & Pelicans & Celery & Seals (cont.)
 reproduction of the pelicans on these islands. This film also
 points to the importance of aquatic life that might be utilized
 as food for human consumption.
 16mm/30 mins./color National Educational Television Film Service
- The Chain of Life: Our Vanishing Wilderness Series (E-J-H-C-A)
 This program illustrates what a food chain is, how it supports
 diverse forms of life and how interfering with it can bring havoc
 in unexpected ways. This last of eight programs examines new
 trends toward more intelligent use of the earth's natural resources.

 16mm/30 mins./color National Educational Television Film Service
- Cities of the Future

 An animated segment shows how years of growing urbanization have brought worsening conditions of pollution, slums, congestion.

 Focusing on creative planning now in progress, a dozen cities around the world are visited. We study, for example, Brazil's "clean-slate" approach and Philadelphia's "constructive-restoration." Exciting architectural ideas shown: "weather-proofed" cities, megastructures surrounded by greenbelts, multi-level cities and floating cities.

 16mm/25 mins/color

 McGraw-Hill Films
- Ell Conservation/A Job for Young America (E-J-H-C-A)
 Litter and what young people can do about it is the subject of
 "...one of the cleverest short films for conservation."
 16mm/19 mins./color McGraw-Hill Films
- Conservation for the First Time (E)
 Several children are given movie cameras and asked to "help shoot
 a movie of the city." They experience awareness of their urban
 surroundings for the first time. They discover the wonders and
 beauty of nature and the conveniences of the city. They express
 concern for preservation of natural resources and improvement of
 the neighborhood's appearance.
 16mm/9 mins./color McGraw-Hill Films
- Cosmopolis/Big City 2000 A.D. Parts I & II (J-H-C-A)
 What will the big city be like in the year 2000? This provocative
 film visits with such authorities as architects Philip Johnson,
 I. M. Pei, and Senator Paul Douglas. Floating cities, prefabricated units, megastructures, and green belts surrounding new
 British towns are only a few solutions to urban problems which are discussed.

 16mm/52 mins./color

 McGraw-Hill Films
- Elli Environment (I-J-H)

 The degrading of our environment is a major problem. However, the causes of this deterioration are complex and are closely bound to



Cat. No.

Description

Environment (cont.)

the strengths of a modern industrial society: affluence, advanced technology and individualization. This film probes beyond the superficial rhetoric of ecology and shows that while such practices as high-technology farming can be destructive to the land, the products of this farming are vitally needed. What balances must be struck? Can we preserve our environment and still hold on to our technology and life style? After posing these questions, this unusual and highly dramatic film is left open-ended. Bernard Wilets Film. Ecological problems/the affective approach.

16mm/28½ mins./color

EFA Educational Media

- The Garbage Explosion

 Investigates the nature, volume, and composition of solid wastes, which include a growing proposition of less destructible paper, metals, plastic, and glass. It presents advantages and disadvantages of current disposal methods, and shows possible long range solutions.

 16mm/16 mins./color

 Encyclopaedia Britannica Education Corp.
- House of Man: Our Changing Environment Part I (I-J-H-C-A)
 Reveals the waster of resources in cities, woodlands, and farmlands,
 and the pollution of river waters and of the air.

 16mm/11 mins./color Encyclopaedia Britannica Educational Corp.
- House of Man: Our Crowded Environment Part II (I-J-H-C-A)
 Shows problems that have resulted from the population explosion;
 housing, and food shortages, poverty, industrial waste, and exploitation of natural resources.

 16mm/11 mins./color Encyclopaedia Britannica Educational Corp.
- E18 Life in a Vacant Lot

 Presents the interrelationships of organisms living in an urban vacant lot. A changing community which can be found almost any place, a vacant lot has a short life because it is replaced by construction or plantings, and is eventually "disturbed by man. This film encourages students to investigate the kinds of life to be found in the vacant lots in their own communities.

 16mm/10 mins./color Encyclopaedia Britannica Educational Corp.
- El9 Life in Parched Lands

 The arid, awesome and amazingly beautiful Sonoran Desert is examined through Telescopic lenses to reveal a sand jungle in which survival of the fittest depends more on resourcefulness than on strength.

 16mm/30 mins./color

 McGraw-Hill Films
- E20 Megalopolis--Cradle of the Future (I-J-H)

 Examines the life and problems of Megalopolis, the urbanized northeastern seaboard extending from Boston to Washington, D.C. Shows



Cat. No. Description Megalopolis -- Cradle of the Future (cont.) metropolitan centers, transportation networks, harbors, suburban and rural areas -- and points out the need for better organization of the suburban sprawl in the future course of the urbanization. 16mm/22 mins./color Encyclopaedia Britannica Educational Corp. E21 The Mountains (E-J-H-C-A)Mountains are one of the most interesting land forms of the Western United States. Their appearance reveals the forces that created them. Fir trees are also common on the forested slopes. The forest provides a favorable habitat for many animals. There are many other natural areas to explore. 16mm/l4 mins./color Arthur Barr Productions, Incorporated E22 Our Endangered Wildlife Parts I & II (E-J-H-C-A)78 species of wildlife are threatened with extinction, and this film deals with five of them in depth--the Key deer, whooping cranes, Kirtland's warbler, timber wolves, and the bald eagle. "Vitally important to convince society that it must prevent the destruction of wildlife." 16mm/51 mins./colcr McGraw-Hill Films E23 Our Land Needs Your Help (E-J-H-C-A)Develops an awareness of our environmental problems and suggests ways in which the elementary student can become actively involved in solving pollution and waste of valuable resources. Emphasizes the importance of setting an example to encourage a new way of thinking for everyone. 16mm/13 mins./color Arthur Barr Productions, Incorporated E571 Our Vanishing Lands (E-J-H-C-A) This film contributes to the conservation of America's resources-its land, its wildlife, and its natural beauty. 16mm/24 mins./color McGraw-Hill Films E25 Population Ecology (H-C-A) Analyzes the effects of environment as they relate to surplus or decline of births over deaths. Conditions are set up in the laboratory in which the surplus of births develops in a predictable pattern when natural enemies, food factors, and other environmental factors favor such a surplus. 16mm/19 mins./color Encyclopaedia Britannica Educational Corp. E26 Population Explosion (H-C-A)Shows how advances in medical technology are reducing mortality, thereby giving rise to a great shortage of food for the people of the world. Efforts to increase food production output in underdeveloped nations are explained.



McGraw-Hill Films

16mm/15 mins./color

Cat. No.	Description
E27	The Prairie Killers: Our Vanishing Wilderness Series (E-J-H-C-A) Filmed on the great plains, this film shows how life has changed since ranchers and farmers have driven off Indian tribes, and how the systematized killing of wildlife, especially of prairie dogs, has upset the ecology of the region and threatened several species with extinction.
	16mm/30 mins./color National Educational Television Film Service
E28	The Problem with Water is People (H-C-A) This film traces the course of the Colorado River and the spread of pollution in a magnificent American waterway. A look at the future considers the implications of polluted water in view of the population explosion and the increasing demands of irrigation and industry.
	16mm/30 mins./color McGraw-Hill Films
E29	Problems of Conservation: Air (J-H-C-A) Natural pollutants existed long before man, but harmful pollution did not start until the approach of the Industrial Revolution. This film explains what has caused man-made pollution; its effects on health and property, and what is being done to help solve the problem.
	16mm/15 mins./color Encyclopaedia Britannica Educational Corp.
E30	Problems of Conservation: Water (J-H-C-A) Focusing on some of Southern California's problems, the film shows innovative ways to increase water suppliespercolation ponds, desalination of salt water, artificial weather control. This film also points out that pollution control is equally important in conserving and purifying present water supplies. 16mm/16 mins./color Encyclopaedia Britannica Educational Corp.
E31	Prudhoe Bayor Bust!!: Our Vanishing Wilderness Series (E-J-H-C-A) This program examines the kinds of life that exist on the Alaskan tundra and how the proposed 800-mile oil pipeline and other likely projects would probably ruin the ecology of the land. Conserva- tionists are fiercely opposed to the project and have succeeded in delaying it. This show presents views of people who are for and against the project. 16mm/30 mins./color National Educational Television Film Service
E32	Santa BarbaraEverybody's Mistake: (E-J-H-C-A) Our Vanishing Wilderness Series. This episode examines the controversial off shore oil leak near Santa Barbara and shows how the blame is shared by government, scientific and civic parties as well as oil companies. 16mm/30 mins./color National Educational Television Film Service



Cat. No.	<u>Description</u>
E33	The Seashore (I-J-H-C-A) Explores the variety of shorelines and beauty of the Pacific Seashore, showing some of the typical plants and animals that live on the sandy beaches and in the tidepools and how they adapt to their habitat. 16mm/10 mins./color Arthur Barr Productions, Incorporated
E34	The Sense of Wonder Parts I & II (H-C-A) This two-part filmThe Sense of Wonder and The Edge of the Sea demonstrate how all of us can hold onto and renew our inner strength by searching out the ways in which we share the common bond of life with all things. Whether we live in the country or the city, all we need do is open our eyes to the easily observable aspects of nature. A "natural" film in the most literal sense. 16mm/51 mins./color McGraw-Hill Films
E35	Silent Spring of Rachel Carson Parts I & II (E-J-H-C-A) "A stimulatingand disturbingstudy of the promise and perils of widespread pesticide use. An extraordinarily fine job." 16mm/54 mins./B&W McGraw-Hill Films
E36	Slow Death of the Desert Water: Our Vanishing Wilderness Series. This program illustrates the many ways in which man is responsible for the threat to existence of the cutthroat trout, the white pelican and the cui-cui fish in Pyramid Lake in Nevada. It also takes a look at the conflicts between three factions in the area: officials and proponents of the Truckee Carson Irrigation District; the Paiute Indians who claim ownership of the lake and want to develop its shores for recreation; and the managers of federal refuges. 16mm/30 mins./color National Educational Television Film Service
E37	Standing Room Only Examining the proposition that the world can support an ever-rising population, the film depicts ideas for distributing food surpluses, exploiting the oceans, increasing agricultural activity, and advancing present methods of birth control. 16mm/25 mins./color McGraw-Hill Films
E 38	A Strand Breaks [J-H-C-A] Illustrates the importance of maintaining the natural balance of plant and animal life in an ecological community by showing what happens when that balance is destroyed. Shows how overgrazing affects the grasslands community and how hunting can affect the balance of the forest community. Explains how man can preserve the balance in nature by intelligent management of natural resources. 16mm/17 mins./color Encyclopaedia Britannica Educational Corp.



Cat. No.	Description
E39	Surviving In Space (E-J-H-C-A) Can man endure the various conditions of the hostile environment of space? Bioastronautics—a new branch in medical science—does just this. This film takes us to the School of Aerospace Medicine at Brooks Air Force Base in Texas, where we watch astronauts as they are subjected to simulated conditions of space such as increased G forces, disorientation, extremes of temperatures, and semi-weightlessness. 16mm/26 mins./color McGraw-Hill Films
El ₄ Ο	They Care for the Nation: Mission Possible Parts I & II (I-J-H-C-A) Film deals with those general pollution problems which face the nation as a whole and what we can and must do to correct them. Several examples of possible solutions are given, many interviews are held with many prominent personalities on both sides of the issue. 16mm/52 mins./color McGraw-Hill Films
EL,1	The Time of Man The Time of Man is a thoughtful, stimulating and brilliant exposition of the basic meaning of the word "environment." Starting with evolution of the earth from a cloud of gas to a sea-covered planet able to sustain the first tiny bits of life, the interrelationship of creatures and environment is shown in a new perspective. Animals are seen to have survived, or perished, according to their ability to adapt to the environment. The film shows the development of primitive man and focuses on several primitive groups whose life styles so clearly reflect their attitudes toward the environment. [6mm/50 mins./color Ealing Corporation]
E)42	Tomorrow's World/Feeding the Billions Parts I & II (J-H-C-A) Shows that rapidly-expanding populations in underdeveloped areas are the main reasons for the shortage of food. The film considers new ways of harnessing the earth's resourcessuch as farming the oceans. Several new projects to develop new foods at low cost are presented. The viewer is made aware of the gravity of the present situation and the danger of widespread food shortages in the near future, if appropriate measures are not taken immediately. 16mm/54 mins./color McGraw-Hill Films
到43	Urban Sprawl Describes the characteristic pattern of recent urban growth and discusses the problems created by urban sprawl, the necessity for planning future development, and the factors that must be considered to make the best use of our land space. 16mm/15 mins./color Arthur Barr Productions, Incorporated



Description Cat. No. EPT The Water Is So Clear That a Blind Man Could See: Our Vanishing Wilderness Series. The subject of this program is the struggle of New Mexico's Taos Indians to save their sacred forest grounds from commercial logging interests. The Blue Lake Region is vital to the Taos Indians for both spiritual and practical reasons. The tribe's very survival is dependent upon the preservation of this area because its only water supply originates from Blue Lake which would be destroyed by logging. 16mm/30 mins./color National Educational Television Film Service E45 What Are We Doing to Our World? Parts I & II (E-J-H-C-A)More than 100 years ago, Ralph Waldo Emerson said, "The end of the human race will be that it will eventually die of civilization." This two part examination of the way technology is altering our environment pleads desperately for conservation. 16mm/52 mins./color McGraw-Hill Films (E-J-H-C-A)E46 What in the World Is Water? This film explains what water is -- not by its chemical composition, but by its function as a carrier of other substances. Students will see how important water is to man, and learn about such concepts as condensation, erosion, irrigation, and water power. Film ends with an illustration of the energy potential of atmospheric water and stored water in a reservoir. 16mm/12 mins./color McGraw-Hill Films 147 Will the Gator Glades Survive? (E-J-H-C-A)Our Vanishing Wilderness Series. This program contends that the Everglades are being destroyed and illustrates how man is responsible. Control of water for man's purpose is proving disastrous to the delicate water system on which the glades depend for survival. l6mm/30 mins./color National Educational Television Film Service E48 The World Around Us (H-C-A)This film provides an excellent introduction to the science of Ecology and its vital importance in today's world. It demonstrates what an eco-system is, shows how life is interdependent, describes how man is the only animal that tampers with his environment and discusses pollution and conservation. 16mm/25 mins./color McGraw-Hill Films E49 My City (P-I) An exploration of the city environment in terms of the lives of the three children in it. Emphasis is on the nature, diversity and quality of lives in a city. What is life like in the city environ-



Urban Environment of this catalog.

16mm/20 mins./color

ment? What it means and feels like to live in the city. This film is for use only with the kit The City, number G21, in section on

Calliope Films, Inc.

ENVIRONMENTAL LABORATORY

Cat. No.	Description
A006	Conservation and Environmental Studies Center Teacher's workshop handbook. For resident environmental education programs.
AO1);	Good Teaching Aids Audubon Aids 1. How to lead a field trip 2. Natural resources in the city 3. Mysteries of bird migration 4. Rock stories and how to read them 5. The terrarium, a miniature garden under glass 6. Some adventures with wild plants outdoors and indoors 7. Plant propagation in the classroom 8. Things to do in nature 9. How to build a nature trail 10. Trees are history books 11. Forecasting the weather 12. Schoolyard laboratories 13. Nature quiz electric nature games
A019	Guide to Nature's Laboratory School District of University City, Missouri. Gives an overview of the general area for the one-time field trip as well as gives breakdowns of particular areas for more specialized study trips.
A024	Man and His Environment Copyright 1970. National Education Association. An introduction to using environmental study areas.
A028	Micro-Climate Measuring Techniques Contains measuring devices to show that there are variable conditions which combine to make our weather. The instruments are small enough and sensitive enough so they can be used to show small differences in the environment in a limited area, such as your school yard. Environmental Science Center. Grades 3-9
A033	Outdoor Activities Collection Environmental Science Center, Minnesota. A collection of 20 short term unique outdoor activities is offered in this package. The subject of a few of the activities is sand, rotting fruit, a light bulb, minnows, and goldenrod gland galls. Grades 1-12
A065	Outdoor Education at the Deserted Village Union County Outdoor Education Center.
A034	Outdoor Education on Your School Grounds Norman F. Marsh. Outdoor education is learning out-of-doors those facts, themes, and concepts that can best be learned outside the



classroom.

ENVIRONMENTAL LABORATORY

Cat. No.	Description
AO 38	People and Their Environment Copyright 1968, 1969. J. G. Ferguson Publishing Company. Cyril Busbee. Outdoor Laboratory. Grades 2-12.
F053	Pigeons Urban Ecology Series. Ealing Corporations. One does not need to live in the suburbs or the country to study living things first-hand. Each film-loop in the series is a field trip, an exploration which will encourage your students to begin their own projects or to find living specimens to bring to class. Teacher guide and suggested lesson plan. Super 8 cartridge color film loop.
в076	Planning a Nature Center Copyright 1963, 1966. Nature Centers Division, National Audubon Society. Byron L. Ashbaugh, Associate Director, has prepared a thoroughly practical guideline on planning the nature center to help local government agencies, private groups, and interested individuals properly develop these projects.
A069	Planning a School Environment Copyright 1970. City of Hutchinson, Minnesota. Environmental Science Center. This booklet contains some philosophy, ideas for your school, plans for model areas, and development suggestions.
A045	Plant Study Union County Outdoor Education Center. Follow-up study of plants.
до46	Pond Life Study Union County Outdoor Education Center. Follow-up activities concerning the study of ponds.
A 050	Science and Conservation in the Field J. Weston Walch, Publisher. Harold R. Hungerford. To help the teacher plan and execute science instruction in the field.
AO51A	Soil Study Union County Outdoor Education. Follow-up material showing how to study soil.
A058	Woodland Crafts Union County Outdoor Educational Center. Step-by-step instructions showing how to make: (1.) Prints of leaves and plants, (2.) Plaster casts of footprints.
A008	The Community School SiteLaboratory for Learning United States Department of Agriculture. A brief sketch to a school site or outdoor laboratory.



Cat. No.	<u>Description</u>
Rl8	Aesthetics for the Future Distributed by Indiana University. Ian McHarg, University of Pennsylvania. One-half hour program. Tape Recording.
но76	Agriculture and the Quality of Our Environment Copyright 1968. American Association for the Advancement of Science. Report on a symposium organized by the Section on Agriculture of the AAAS. This book brought together the per- tinent facts about how agriculture affects the quality of our environment.
H091	The Children of Frankenstein Copyright 1970. Indiana University Press. Herbert J. Muller. A primer on modern technology and human values. "Just what has modern technology done TO as well as FOR people?" is the central question of this original and provocative book.
НО90	Climate, Man and History Robert Claiborne. An exploration of the how, when, and why of climate and its effects on man and history. An account of what climate is and what determines it. How is man influencing climate? Can he control it, and if he can, will he?
RO8	The Condition of the World Environment Distributed by Indiana University. Lamont Cole, Cornell University. One-half hour program. Tape Recording.
R13	Current Developments in Environmental Law Distributed by Indiana University. One-half hour program. Tape.
н105	Eco-Catastrophe Copyright 1970. Harper & Row. Editors of Ramparts. This book tells the story of mindless tampering with the natural order of dirty water, unbreathable air, oil-killed birds, radioactive debris and poison gases, noisy streets, junkyards, and of mother's milk polluted with strontium 90 and imperishable residues of DDT. It tells how greedy, careless, reckless people are dragging themselves down and taking with them everything trying to stay alive on the surface of the earth.
Rll	Economic Planning to Protect the Environment Distributed by Indiana University. Allen Kneese, Resources for the Future. One-half hour program. Tape Recording.
F028	Environment: Changing Man's Values Guidance Associates. Analyzes the need for fundamental changes in our attitudes and relationships to the environment. Teacher's guide with filmstrips and records.
D007	Environmental Quality Transmitted to the Congress, August 1970. The first Annual Report of the Council on Environmental Quality.



Cat. No.

Description

- H093 The Environmental Revolution
 Copyright 1970. McGraw-Hill Company. Max Nicholson. The story
 behind a worldwide effort to check threats to the natural environment, its successes and setbacks, its weaknesses and strengths is
 here told for the first time by a man who is informed on the
 problems, personalities, thoughts, and feelings underlying it.
 Thus, a disturbing but stimulating book and not entirely discouraging view of the human species.
- R15A Federal Support of Environmental Studies Programs
 Distributed by Indiana University. John Brademas, U.S. Representative. One-half hour program. Tape Recording.
- HO36 The Fitness of Man's Environment
 Copyright 1968. Smithsonian Publication. Smithsonian Annual II.
 For those concerned with the future environment and the basis on which its elements are determined, developed, and safeguarded.
- Holl Fresh Eggs, Vegetables and Violets
 Copyright 1970. Exposition Press, Incorporated. Else Fagrell.
 In this delightful book, young readers will meet a gallery of fascinating characters and a most unusual hero. The story of the struggle to preserve the natural beauty of the land against the forces of "progress" is a delightful journey into childhood. The book is a timely, intelligent treatment of the problems arising when progress threatens to intrude on the world nature created.
- RO3 The Great Debate Series
 Educational Sensory Programming, Inc. Over population--Government
 Control of Family Size? Pollution--Technology vs. Ecology. Tape.
- RLLB The Impact of Technological Development on Values
 Distributed by Indiana University. Theodore Gordon, Institute for
 the Future. One-half hour program. Tape Recording.
- R12 Man and the Environment: Political Perspective
 Distributed by Indiana University. Richard Levins, University of
 Chicago. One-half hour program. Tape Recording.
- FO38 Modern Biology: Environment and Survival. Group 1
 Singer SVE. An excellent opportunity for students to study how
 living things relate to their environment. This series stresses
 the "new" ecological biology approach through brilliant fullcolor photos of plants and animals in their natural habitats.
 - 1. Life in Relation to Environment
 - 2. Life in the Forests
 - 3. Life in Two Subtropical Communities
 - 4. Life on Grasslands and Praries

Junior-Senior High

Set includes four filmstrips, two records, and four guides.



Cat. No.

Description

- FO39 Modern Biology: Environment and Survival. Group 2
 Singer SVE. Explains animal-environmental interdependence, plantanimal communities, importance of biotic and abiotic conditions
 such as topography, rainfall, and intra-species competition.
 - 5. Life in a Sand Dune Succession
 - 6. Life in a Bog
 - 7. Life in an Alpine Environment
 - 8. Life in a Fallen Log Microcommunity

Junior-Senior High

Set includes four filmstrips, two records, and four guides.

DO20 The Next Hundred Years

Copyright 1957, 1963. Viking Press. Harrison Brown, James Bonner, John Weir. A challenging exploration of the future of the earth's natural resources in relation to man and his technology. The Next Hundred Years is the result of a series of discussions between the authors and the chief executives of 30 of America's major corporations. The questions raised are vital to the future of our industrial civilization and the answers, "will determine whether our culture, nation, children, live or die."

DO10 No Deposit--No Return Copyright 1970. Addison

Copyright 1970. Addison Wesley Publishing Company. Huey D. Johnson. Man and his environment: a view toward survival. The book is a primer for environmental awareness, and meant for all concerned citizens. It is ideally suited for a text in interdisciplinary courses treating the wide spectrum of man and his environment, and for supplementary use in introduction nonmajor biology courses.

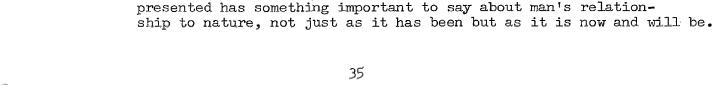
HO52 One Earth, Many People

Copyright 1970. Lawrence Pringle, Collier Macmillan. Gives readers a preview of the world they will inherit and choices they will have to make. Ages 10 and up.

- DO52 The Only Earth We Have
- Operating Manual for Spaceship Earth
 Copyright 1969. Simon and Schuster. R. Buckminster Fuller.
 Buckminster Fuller traces man's intellectual evolution and weighs
 his capability for survival on this magnificent craft--Spaceship
 Earth. He notes that man must be educated right now to convert
 his tendency toward oblivion into a realization of his potential,
 to a universe-exploring advantage from his Spaceship Earth. This
 book is a blueprint for our future.



Description Cat. No. FO16 Our Land and Its Story SVE Educational Filmstrip. Illustrate and extend the elementary Social Studies curriculum with their colorful presentation of important aspects of our country's background and culture. These filmstrips deal with the growth of American civilization amid the influences of geography and the elements of nature, highlighting the interdependence of man and nature. Interest level $1-\mu$. Reading level 3. The Politics of Ecology H092 Copyright 1970. E. P. Dutton and Company, Inc. James Ridgeway. This book is a nationwide handbook for survival. The proposals for change suggested by the author are not meant as adjustments or reforms for controlling pollution. They represent different ways of attacking the source of pollution, thereby opening up possibilities for change. R10 Population, Pollution, and Affluence Distributed by Indiana University. Herman Miller, U.S. Bureau of the Census. One-half hour program. Tape Recording. H068 Problems of American Society: Values in Conflict Copyright 1948, 1951, 1956, and 1964 (fourth edition). Holt, Rinehart, and Winston, Inc. John F. Cuber, William F. Kenkel, and Robert A. Harper. A major part of the text in this fourth edition is new. The point of view, however, remains the same, namely, that the key focus for understanding social problems in a somewhat free and democratic society consists of an examination of "who wants what and why." R15B Project on the Predicament of Mankind. Distributed by Indiana University. Dennis Meadows, Massachusetts Institute of Technology. One-half hour program. Tape Recording. 180H Since Silent Spring Copyright 1970. Frank Graham, Jr. Mr. Graham describes the background of a remarkable woman and scientist, the genesis of her book, and her reaction to the great controversy. R16A The State's Role in Land Planning and Environmental Quality Distributed by Indiana University. William Mott, State of



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California. One-half hour program. Tape Recording.

Copyright 1967. P. Shepard and D. McKinley. A collection of essays towards an ecology of man. Each of the thirty-six essays



H060

The Subversive Science

Cat. No.	Description
R11 ₁ A	Technological Forecasting and Social Change Distributed by Indiana University. James Bright, University of Texas. One-half hour program. Tape Recording.
R09	This Finite Earth Distributed by Indiana University. Preston Cloud, University of California. One-half hour program. Tape Recording.



	Decemention
Cat. No.	<u>Description</u>
DOOL	The American Environment Copyright 1968. Published by Addison-Wesley Publishing Company. Roderick Nash.
НО74	The American Experience Copyright 1971. Addison-Wesley Publishing Company. An American History text oriented toward environmental issues.
AO27B	Angling for an Unknown DimensionMathematic The Environmental Education Instruction Plan, (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A066	Art and Conservation Teaching to Improve Man's Environment Indiana State Department of Public Instruction. A resource guide.
A003	Button Bag Environmental Science Center, Minneapolis. Buttons are used as a vehicle to introduce children to the study of statistics. They become aware of the factors which influence the validity of statistics. Grades 3-9.
D003	Career Opportunities Ecology, Conservation, and Environmental Control Copyright 1971. J. G. Ferguson Publishing Company.
A070	The Center for Environmental Communication and Educational Studies Reprinted from Spring issue of Environmental Education, 1970. Fundamental Concepts for Environmental Management Education. Robert E. Roth. What a person should know about environmental management in order to function as an effective citizen. (K-16). Environmental Education: An Integrated Approach. David Archbald and Paul Gundlach. Fundamental concepts in action.
B009	The College, the Community, and Conservation Copyright 1967. Report of a conference of the college, the community and conservation.
A005	Color and Change Environmental Science Center, Minneapolis. Children become aware of color as an important property of natural materials and color change as a significant indicator of biological alternation of the factors which influence the validity of statistics. K-2.
DO54	Designing Education for Tomorrow's Cities Copyright 1970. Holt, Rinehart, and Winston, Inc. Mario D. Fantini, Milton A. Young. The authors vigorously examine current educational systems and find them outmoded and inadequately structured. Considering major strategies for reforming these anachronistic systems,



dering major strategies for reforming these anachronistic systems,

Cat. No. Description

the authors use as a case study the development of the Fort Lincoln New Town school system which has been incorporated into this model city located outside Washington D.C.

- B070 Directory Environment Education Facilities
 Prepared and published by National Audubon Society. This directory
 is the revised edition of the 1967 NATURE CENTERS AND OUTDOOR
 EDUCATION FACILITIES.
- B016 Directory of National Organizations Concerned With Land Pollution Control Copyright 1970, September. Freed Publishing Company.
- DOUM Ecology-Life, Struggle, Survival
 Copyright 1970. Published by Addison-Wesley Publishing Company.
 L. McCombs, N. Rosa. An introductory study of the science of ecology.
 Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with relevance for today's concerned students. Grades 7-8.
- HO89 Ecology and Resource Management
 Copyright 1968. McGraw-Hill Publishing Company, Kenneth E. Watt.
 The field of resource management has tended to fragment, and there is inadequate exchange of principles, theories, methods, and ideas about data processing and interpretation techniques among the various professional groups of resource managers. This book is intended to remedy this situation by providing a text for courses that cut across disciplinary lines and consider all resources on a comparative approach.
- A010 Elementary Program in Science
 School District of University City, Missouri. Guidelines for developing skills in the field of science for elementary students.
- Environment and the Schools

 Copyright 1971. National School Public Relations Association. The editors of EDUCATION U.S.A. prepare special in-depth reports on current education issues and problems. The special reports are prepared when the editors decide that a new development in education is important enough to be covered in detail. Environment and the Schools is the 25th report in this series.
- JO2 Environmental Education

 Dembar Educational Research Services, Inc. A journal of research and development in environmental studies. Published quarterly.
- A011 Environmental Education
 Copyright 1969. National Wildlife Federation. Wilhelmina Hill.
 Objectives and field activities.



Cat. No.	Description
A085	Environmental Education, Instructor January, 1971. This article gives information, ideas, and activities on environmental education designed to assist you in giving children a better understanding of the problem and its solution.
HIOI	Environmental Geology: Conservation, Land Use Planning, and Resource Management. Harper and Row, Publishers. Peter T. Flawn. Its general subjectlong one of prime importance to geologists, ecologists, conservationistsrecently has become a major concern of the man in the street, a viable issue cherished by politicians and would-be office holders, and a growing preoccupation of architects, sociologists, reformers, urban designers, and national planners.
1036	Environmental Health Planning Copyright 1971. Published by the United States Department of Health, Education, and Welfare Public Health Service. This book briefly describes environmental health problems and the need for planning, a description is offered of urban and regional planning, comprehensive health planning, and principles of program planning.
A061	Environmental and Outdoor Education Projects New Jersey State Council for Environmental Education. Compilation of projects in the state of New Jersey.
D007	Environmental Quality Transmitted to the Congress, August 1970. The First Annual Report of the Council on Environmental Quality.
AO12	Field Math Union County Outdoor Educational Center. Follow-up material on outdoor math.
B022	Focus on Environmental Education The book offers a reationale for environmental education, listing some guidelines and explaining in detail how an environmental education program can be organized. Other sections have specific suggestions on how to intergrate aspects of environmental education with the various disciplines in a school curriculum.
но37	Forestry and Its Career Opportunities Copyright 1952. Published by McGraw-Hill Book Company. Hardy Shirley. To help beginning students understand the many facets of forestry deciding if forestry is to be their life career.
B008A	Free Films on Air Pollution Published by the National Medical Audiovisual Center. The theme of this booklet is public concern for air pollution. The booklet explains how the major provisions of the Clean Air Act can affect all of us.



Cat. No.	Description
D 0 09	Free and Inexpensive Learning Materials Joe Jackson. Fifteenth Biennial Edition.
A075	Guide to Environmental Education Published by Conservation Committee of the Madison Public Schools, Madison, Wisconsin. Conservation of natural resources. Teachers are encouraged to develop teaching concepts in six major areas: soil, water, minerals, wildlife, plants, and recreation. Teachers can intergrate conservation attitudes, appreciations, and basic understandings in science, social studies, and language arts, and other subject fields. Grades K-6.
AO16	Guidelines for Environmental Sensitivity Pennsylvania Department of Education. To help classroom teachers to create an interest in conservation problems that will stay with pupils and add meaning to their lives.
B078	How to Design Educational Games Copyright 1970. Ray Glazier. A design manual for teachers and cur- riculum developers.
AO21	Interdisciplinary Outdoor Education Shoreline School District #412, Seattle, Washington. A start to fulfill the need to establish an awareness that the out-of-doors provides as a framework in which a wide variety of subject areas can interact in an way which will be mutually enriching.
A027C	Inviting Involvement in History, Social Studies Published by Conservation and Environmental Studies Center, Inc. Edited by V. Eugene Vivian, and Norma T. Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A022	Language Arts Union County Outdoor Educational Center. Follow-up material concerning creative expression.
DO28	List of Available Publications of the United States Department of Agriculture. Compiled by Mildred Fortson, issued May, 1969. A list of available publications from the Department of Agriculture and how to obtain them.
A023	Local Education Agency Guidebook for Resident Environmental Education Programs. Prepared by the Conservation and Environmental Science Center.



Description Cat. No. DO45 Man and Food Copyright 1970. McGraw-Hill Company. Magnus Pyke. This book sets out to review the present state of our knowledge on food. Dr. Pyke first discusses the chemical composition of foods. The second part of the book covers the science of nutrition. The last section deals with food technology. 4027 Man and His Environment Copyright 1970. Published by the National Education Association. An introduction to using environmental study areas. DOPT Man's Impact on the Global Environment This Report of the Study of Critical Environmental Problems presents the results of an interdisciplinary examination of the global climate and ecological effects of man's activities. The focus is on environmental problems which have worldwide significance. M.I.T. A027A Manual for College Participants in Environmental Education Programs Published by Conservation and Environmental Studies Center, Inc. This book is intended to describe in some detail the program and purposes of the Conservation and Environmental Science Center. BO73 Movies About Oil Prepared by the Committee on Public Affairs. A catalog of motion pictures of general interest about petroleum. DO18 Natural Resources and the Political Struggle A029 Nature's Art Environmental Science Center, Minnesota. A collection of techniques for displaying, reproducing, or using natural items as media. Grades 3-6 DO33 A New Look at Elementary School Science Copyright 1967. Rand McNally and Company. Robert Karplus and Herbert D. Thier. DOLO No Deposit -- No Return Copyright 1970. Addison Wesley Publishing Company. Huey D. Johnson. Man and his environment: A view toward survival. The book is a primer for environmental awareness, and meant for all concerned citizens. It is ideally suited for a text in interdisciplinary



A086

Oceanography: Environmental Approach to Marine Science

ocean environment. High school grade level.

courses treating the wide spectrum of man and his environment, and for supplementary use in introduction nonmajor biology courses.

Oceanography Unlimited, Inc. 1970. Curriculum guide for studying

Description Cat. No. Opportunities in Environmental Careers HO97 Copyright 1971. Universal Publishing & Distributing Company. Fanning. Here is a comprehensive book that, for the first time, analyzes all of the existing and emerging career opportunities in the broad environmental field. It points out what kinds of manpower will be needed in the various branches of environmental management, and it discusses specifically the basic information needed by anyone wanting to seek a career in one of the many areas developing in this important field. Outlines of Environmental Education H077 The overall goal of this book is Copyright 1971. Clay Schoenfeld. to help professionalize the new field of environmental education. The measure of its success will be the degree to which it is of service to the growing numbers of people engaged systematically in relating man to his world. People and Their Environment A037 Home Economics. Copyright 1968, 1969. Published by the J.G. Ferguson Publishing Company. Cyril Busbee. Grades 9-12. People and Their Environment A039 Science. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 7-9. People and Their Environment OTOY Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 7-9. People and Their Environment AOLL Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Publishing Company. Cyril Busbee. Grades 10-12. Photography for Kids AOLL Environmental Science Center. This guide includes complete instruc-

- DO53 Probing the Depths for Knowledge Oceanography Unlimited, Inc., 1969. Educational catalog.
- A047 Programs in Environmental Education

 Descriptions of more than 50 programs that have material or can respond to inquires.

tion for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stopping time with a camera, seeing interesting patterns, and using

Cl3 Ranger Rick's Health and Growth Chart.
Published by the National Wildlife Federation.

light.



Cat. No.	Description
B077	The 70's Decade of Environmental Decision Environmental Science Center. Education and action guidelines.
B052	State Department of Education Personnel Responsible for Environmental Education. United States Department of Health, Education, and Welf: Office of Education.
A027E	Tuning Up the Five Senses Published by the Conservation and Environmental Studies Center. Edited by Eugene Vivian and Norma T. Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students.
A059	Vacant Lot Studies Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathamatics around the study of a vacant lot. Grades 5-9.
A057	Vital Views of the Environment Presents concepts and major ideas in relation to the environment through short excerpts from speeches and writings on the theme.
A08l4	Index to EcologyMultimedia Copyright 1971. Published by the University of Southern California. Brings together a comprehensive bibliographical listing of non-book media titles on this important subject. Volume contains over 7,000 titles dealing with the preservation of our environment.
AO13	Geology Union County Outdoor Educational Center. Follow-up material concerning geology.



MAPPING

Cat. No.	<u>Description</u>
AO31	Orienteering and Compass Union County Outdoor Education Center. Follow-up material using the compass.
COL	Further Development of Scale Looking at more complex maps. Copyright 1968. J. C. Enterprices, Inc. Donald Thompson & Stacey Peterson. Grades 2-8.
co5	Improving Map Reading Skills Set I Copyright 1968. J. C. Enterprices, Inc. Dr. John Q. Adams. To improve your map reading skills. Jr. High Level.
c 06	Improving Map Reading Skills Set II Copyright 1968. J. C. Enterprices, Inc. Dr. John Q. Adams. To improve your map reading skills. Jr. High Level.
C08	Introduction and Developing of Scale and Legend Copyright 1968. J. C. Enterprices, Inc. Donald Thompson and Stacy Peterson. Grades 2-5.
c 09	Introduction of Map Reading Vocabulary Set A Copyright 1968. J. C. Enterprices, Inc. Donald Thompson and Stacy Peterson. Grades 1, 2, and 3.
но83	Mapping Copyright 1944 and 1951. David Greenhood. Mapping explains how to feel at home with all kinds of maps; how to know good maps from bad; how to make your own maps; how to do your own surveying for a map with the use of a few simple homemade or inexpensive devices; how to collect maps as a specialist and care for them.
мо877	Index MapState of Arizona Project Outreach has a complete set of United States Department of the Interior Geological Survey Maps of the State of Arizona. You may obtain these maps by ordering the State of Arizona Index Map.



Description Cat. No. Access to Our Natural World AOOl Union County Outdoor Education Center. Project description. 8. гон All About Camping Copyright 1962, 1963. Published by the Stackpole Company. By W. K. Merrill. Designed to add comfort and enjoyment as you find new experiences in the great out-of-doors. FO71 American Prairie Ecology of the United States Series. Ealing Corporation. What characteristics does an animal need to survive on the prairie? With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant and animal life. Super 8 cartridge color film-loop. 1072 Animal Adaptation to Environment Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacherin-service training center as well as a resource for students. BOOL Arizona Firearms Safety Published by the Arms and Ammunition Manufacturers Institute. Laws and regulations concerning firearms. How to use firearms safely. H071 The Art of Plug Fishing Copyright 1965. Published by the Stackpole Company. By Homer Circle. H072 Boating and Fishing Almanac Copyright 1965, 1966, 1967, 1968, 1969. Published by Commander William Berssen. By Commander William Berssen USCGR. HO23 The Book of Trees Copyright 1957, 1962. Published by the Stackpole Company. By William Carey Grimm. A non-technical reference with at-a-glance keys to what makes each tree different. H021 Border-to-Border Camping Trips Copyright 1966. Published by the Stackpole Company. By Glenn and Dale Rhodes. Campground and their facilities along or near 15 coast-tocoast and 19 border-to-border U.S. Highways to camp your entire way around the country. HO22 The Boy's Book of Backyard Camping Copyright 1968. Published by the Stackpole Company. By Allan A.



Macfarlan. At-your-doorstep way to become a skilled camper at home,

in the outdoors, anywhere.

Cat. No.	Description
P30	Broadleaf Trees Singer SVE. 1. Red Oak 2. Mountain Ash 3. Quaking Aspen 4. Ohio Buckeye Singer SVE. 5. Flowering Dogwood American Elm 7. Sugar Maple 8. Weeping Willow
A004	Camping School District of University City. Camp White Cloud. School camp manual.
HO24	Camping for Boys and Girls Copyright 1966. Published by Follet Publishing Company. By Tom McNally. A famed outdoorsman helps you get the most out of camping.
D002	Camping and Camp Cookery Copyright 1950. Published by Collier Books. By Frank Dufresne. A first aid to fuller enjoyment in the out-of-doors through cooking.
но25	Camping Manual Copyright 1967. Published by the Stackpole Company. By Fred Sturges. A camper's yearbook for up-to-date camping. New experience and comfort making tools, best of outdoor visiting.
GOħ	Circular Jigsaw Puzzle Charles Ripper. Everglades National Park. Grades 4-6.
P28	Common Fruits Singer SVE. 1. Strawberry 2. Banana 3. Blackberry 4. Date 5. Grape 6. Orange 7. Peach 8. Pear
F070	Coniferous Forest Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life. Super 8 cartridge color film-loop.
но28	Cooking and Camping on the Desert Copyright 1966. Published by the National Naylor Company. By Choral Pepper. The basics of cooking on the desert, by a lake, in the middle of nowhere, or anywhere! An amazing variety of dishes.
НО30	Coping with Camp Cooking Copyright 1966. Published by the Stackpole Company. By Mae Webb Stephens and George S. Wells. Time and trouble-saving hints and camp- ground proved recipes.



Cat. No.

Description

- Cracks in the Pavement

 Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things first-hand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- BO12 Creative Native Crafts
 Copyright 1959. Published by Burgess Publishing Company. By R. O.
 Bale. The development of craft projects using inexpensive materials available in nature.
- F055 Dandelions
 Urban Ecology Series. Ealing Corporation. Each film-loop in the series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- F069 Deciduous Forest

 Ecology of the United States Series. Ealing Corporation. With this series of film-loops you can show your students the basic characteristics of the terrain, the marvelously adapted plant/animal life.

 Super 8 cartridge color film-loop.
- The Deer Hunter's Guide
 Copyright 1964. Published by the Stackpole Company. By Francis Sell.
 Tells how to hunt deer successfully, select arms and ammo trails,
 learning deer habits, still hunting, stalking, driving, cleaning, and
 butchering.
- BOLL The Desert Speaks
 Copyright 1965. Published by Betts Printing Company and illustrated
 by Hollis Photo-Engraving Company. By William H. Carr. Illustrations
 and descriptions of various living and nonliving things from the
 Arizona-Sonora Desert Museum.
- B017 Discovering Your Environment
 By Myron Chase. Purpose: To creat involvement, understanding and willingness to work and pay for environmental improvements.
- Dolo Diversions and Pastimes
 Copyright 1964. By R. M. Abraham. Offering hours of lively entertainment and fun, this book will be a boon to anyone in charge of a group of youngsters: teachers, scoutmasters and den mothers, camp counselors, Sunday School teachers, club advisors, etc. Other sections include knot and string games, paper folding and cutting, and miscellaneous tricks, such as telling time by the north star, card tricks, magic squares, and others.



Cat. No.	Description
F097	Earth Science: Our National Parks Series 2. Imperial Film Company. (1) Big Bend Texas: Geological layers from various eras, subsequent work of running water. (2) Bryce Canyon, Utah: Formation of vast rock sculptures from beginning to vanishing. (3) Grand Tetons, Wyoming: Classic example of mountain range created by the pushing up of masses of rock. (4) Yellowstone Wyoming: Various types of geyser activity, from Old Faithful to the mud-pots. Set of 4 filmstrips, 2 records.
AOll	Environmental Education Copyright 1969. National Wildlife Federation. By Wilhelmina Hill. Objectives anf field activities.
A071	Environmental Inquiries Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.
AO61	Environmental and Outdoor Education Projects New Jersey State Council for Environmental Education. Compilation of projects in the state of New Jersey.
F094	Everglades, Florida Earth Science: Series 1. Our National Parks. Imperial Film Company, Inc. Subtropical environment occupies the greater part of southern Florida south of Lake Okeechobee. The prevalent plant form is saw grass. The black muck is the result of millions of years of vegetable decay. Vast mangrove forests serve as rookeries for rare birds and other animals from insects to mammals. Inter-JrSr. High
Р36	Familiar Cloud Forms Singer SVE 1. Cumulus (Fair Weather) 2. Cumulus (Towering) 3. Cumulonimbus 4. Altocumulus 5. Cirrus 6. Cirrostratus 7. Stratocumulus 8. Fog
ноо5	A Field Guide to the Ferns Copyright 1963. Published by Houghton Mifflin Company. By Boughton Cobb. Identification and illustration of the ferns of a major portion of the North American Continent.



H009

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their habitats, and the associated forms of wildlife.

A Field Guide to Rocky Mountain Flowers

Copyright 1963. Published by Houghton Mifflin Company. By John J. Craighead, Frank C. Craighead, Jr., and Ray J. Davis. A guide to identification of flowers and a source of richer knowledge about plants,

Description

HOlO A Field Guide to Shells Copyright 1966. Published by Houghton Mifflin Company. By Percy A. Morris. A shortcut to recognizing and naming the multitude of living things that populate America. A Field Guide to the Shells of our Atlantic and Gulf Coasts HOll Copyright 1951. Published by Houghton Mifflin Company. By Percy A. Morris. Contains over 500 different kinds of shells. Illustrated. HOl2 A Field Guide to the Stars and Planets Copyright 1964. Published by Houghton Mifflin Company. By Donald Menzel. This text provides the reader with a pictorial road map to sky watching with binocular or telescope. HO13 A Field Guide to Trees and Shrubs Copyright 1958. Published by Houghton Mifflin Company. By George A. Petrides. Identification of the trees and vines of northeastern and central North America. H016 A Field Guide to Wildflowers Copyright 1968. Published by Houghton Mifflin Company. By Roger Tory Peterson and Margaret McKenny. Provides shortcuts to identification that make it easier to recognize flowers by sight. Illustrated. AO12 Field Math Union County Outdoor Educational Center. Follow-up material on outdoor math. HO35 First Camping Trip Copyright 1955. Published by Coward McCann, Inc. By C. B. Colby. How to make it easier and more comfortable. H070 The Fisherman's Almanac Copyright 1970. Published by the MacMillan Company. By Dan Morris and Norman Strung. F059 Garbage Dumps Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration



AOl3

Geology

geology.

<u>Cat. No.</u>

which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested

Union County Outdoor Educational Center. Follow-up material concerning

lesson plan. Super 8 cartridge color film-loop.

Cat. No. Description

- HO39 Getting Out of Outdoor Trouble
 Copyright 1965. Published by the Stackpole Company. By W. K.
 Merrill. The life-saving handbook on dealing with emergencies.
 For careful families, outdoorsmen, boaters, and vacationers.
- AOll Good Teaching Aids
 Audubon Aids.
 - 1. How to lead a field trip2. Natural resources in the city7. Plant propagation in the class-room
 - 3. Mysteries of bird migration 8. Things to do in nature
 - 4. Rock stories/how to read them 9. How to build a nature trail
 - 5. The terrarium, a miniature 10. Trees are history books
 - garden under glass 11. Forecasting the weather
 6. Some adventures with wild 12. Schoolyard Laboratories plants outdoors/indoors 13. Nature quiz electric nature
- F063 Grass

Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.

- The Great Smoky Mountains

 Earth Science: Our National Parks. Series 1. Imperial Film Co.

 Inc. The Great Smoky Mountain national park was established in
 1934 to preserve the last remaining large area of southern primevel
 hardwood forest in the U.S. A variety of plant forms may be seen.
 Wildflowers, birds, and mammals are shown. Inter-Jr.-Sr. High.
- A019 Guide to Nature's Laboratory
 School District of University City, Missouri. Gives an overview of
 the general area for the one-time field trip as well as gives breakdowns of particular areas for more specialized study trips.
- HOll , Happier Family Boating Copyright 1966. Published by the Stackpole Company. By Goorge S. Wells. Tells safer ways of making boating fun and for less money.
- HOLL2 Happier Family Camping
 Copyright 1965. Published by the Stackpole Company. By George S.
 Wells. The book walks of painless ways to endure through bugs, rain, wind, cold, ashes in the beans. How to live through the problems and hazards for more passaure.
- HO40 Home in Your Pack Copyright 1965. Published by the Stackpole Company. By Bradford



Cat. No.

Description

Angier. Packs in the experience and tips about traveling with what you can carry so your outdoor adventure is a happier one.

- B065 How to Catch Fish in Fresh Water Published by Fisherman's Information Bureau. Text and illustrations by Bob Cary. Fishing does have its own special equipment and skills. Indeed it is the purpose of this pamphlet to show and tell you something about both.
- **A**020 Integrating Conservation and Outdoor Education into the Curriculum Copyright 1965. Published by the Burgess Publishing Company. By William Stapp. Answers the questions of how we can best integrate an adequate program of conservation into a public school program. (K-12)
- A021 Interdisciplinary Outdoor Education Shoreline School District #412, Seattle, Washington. A start to fulfill the need to establish an awareness that the out-of-doors provides a framework in which a wide variety of subject areas can interact in a way which will be mutually enriching.
- G22 Kids, Cameras, and Communities Selective Educational Equipment, Inc. Basic camera kit for a group of 15 students. Includes: instructions, cameras, film, and processing equipment. Students are involved in a total productive effort in environmental awareness.
- PlO Land Forms of Running Water

SVE Educational. Teacher's guide.

- 1. Mature Stream Topography
- Youthful Stream TopographyDelta
- 4. Braided Stream

- 5. Alluvial Fan
- 6. Waterfall
- 7. Canyon Lands
- 8. Natural Bridge

A022 Language Arts

> Union County Outdoor Educational Center. Follow-up material concerning creative expression.

F065 Leaf Litter

> Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.

H045 Learning About Nature Through Games Published by the Stackpole Company. By Virginia W. Musselman. Tells how games can awaken a child's sense of wonder and restore his kinship with his natural environment.



<u>Cat. No</u> .	<u>Description</u>
F050	Let's Explore the Desert Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Plant/animal survival. Man's effects on desert life. 51 frames. Inter-Jr. High
F049	Let's Explore the Dunes Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Dune formation and movement. Plant effects on dunes and animal survival in sand. 51 frames. Inter-Jr. High
FOLI	Let's Explore a Field Exploring the World of Nature Series. Group 1 Singer SVE. Animal and plant life in natural settings. Winter shelter, food. An ecological approach to nature study. Inter-Jr. High
FOL ₂	Let's Explore a Garden Exploring the World of Nature Series. Group 1 Singer SVE An ecological approach to nature study. Life in a garden. 48 frames. Inter-Jr. High
F043	Let's Explore a Lawn Exploring the World of Nature Series. Group 1 Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High
F044	Let's Explore a Pond Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. Plant and animal life in a pond. 50 frames. Inter-Jr. High.
F052	Let's Explore a Salt Marsh Exploring the World of Nature Series. Group 2 Singer SVE. Plant and animal adaptations to salt marsh. How salt marsh differs from other grasslands. 49 frames. Inter-Jr. High
F051	Let's Explore the Shore Exploring the World of Nature Series. Group 2 Singer SVE. An ecological approach to nature study. Seashore life. Tidal zones for plants/animals; tidepool life. 51 frames. Inter-Jr. High
F045	Let's Explore a Stream Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. Plants and animals of various habitats. Pollution damage. 50 frames. Inter-Jr. High
FO46	Let's Explore a Woodland Exploring the World of Nature Series. Group 1 Singer SVE. An ecological approach to nature study. 47 frames. Inter-Jr. High



Cat. No.

Description

- BO30 Let's Go Camping
 Copyright 1960. Distributed by the Shell Oil Company. By Carol
 Iane. Tells what equipment to use, where the equipment can be
 found, and how much equipment you need to go camping successfully.
 Tells what kind of clothing to take, what meals are best to prepare
 and what recreation can be found.
- Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor?

 This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super & cartridge color film-loop.
- Mammoth Cave, Kentucky
 Earth Science: Our National Parks. Series. Imperial Film Co.,
 Inc. Tour of underground passages consisting of limestone, gypsum,
 and cave onyx formation. An amazing series of underground rivers
 and lakes and other examples of the action of water make this
 national park of particular interest to students of natural science.
 Inter-Jr.-Sr. High
- A024 Man and His Environment
 Copyright 1970. Published by the National Education Association.
 An introduction to using environmental study areas.
- B072 Manual of Outdoor Conservation Education.

 Copyright 1968. Published by National Audubon Society. By Joseph J. Shomon. The purpose of this manual is to put into proper perspective some concepts in outdoor conservation education and to bring together in one brief volume some guidelines for leaders on how they can do a better teaching job when using the outdoor environment as a classroom.
- B069 Manual of Outdoor Interpretation
 Copyright 1968. National Audubon Society. Edited by Joseph Shomon.
 How do you teach people about nature? This is a book of answers
 written out of experience by practicing experts in the field.
- A074 Minute Plants and Animals
 Milwaukee Public Schools. The outdoor education mobile laboratory.
 A large trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students. Grade 6.
- A028 Micro-Climate Measuring Techniques

 Environmental Science Center. Contains measuring devices to show that there are variable conditions which combine to make our



Cat. No.

Description

weather. The instruments are small enough and sensitive enough so they can be used to show small differences in the environment in a limited area, such as your school yard. Grades 3-9.

- HO47 Modern ABC's of Bird Hunting
 Copyright 1966. Published by the Stackpole Company. By Dave Harbour.
 This book provides factual and updated information which all hunters, and especially the urban hunters, need in order to find and hunt any game bird seccessfully.
- HO48 Modern ABC's of Fresh Water Fishing
 Copyright 1965. Published by the Stackpole Company. By John Crowe.
 Fundamental for taking trout, bass, pike, muskies, walleyes, pickerel, and the practice and psychology of successful catching even in hardfished waters.
- HO49 Modern ABC's of Ice Fishing
 Copyright 1966. Published by the Stackpole Company. By Jerry
 Chiapetta. Comfortable, safe, big-catch ways of angling through a
 hole. Baits, lures, methods for panfish of trout. State and province
 rundown on where and how to enjoy winter fishing in North America.
- P29 %ths and Butterflies Singer SVE.
 - 1. Tiger Swallowtail
 - 2. Buckeye Butterfly
 - 3. Fritillary Butterfly
 - A. Viceroy Butterfly

- 5. Cloudless Sulphur
- 6. Cecropia Moth
- 7. Polyphemus Moth
- 8. Promethea Moth
- BO38 NRA Hunter Safety Handbook

By the National Rifle Association. Teaches proper gun handling in circumstances related to hunting. Basic information about guns, especially as applied to their safety.

- HO50 The New Fisherman's Encyclopedia
 Copyright 1963. Published by the Stackpole Company. Answers all kinds of questions for all kinds of people who like all kinds of fishing.
- FO96 Okefenokee Swamp, Georgia
 Earth Science: Our National Parks. Series 1. Imperial Film Co.,
 Inc. In this natural life refuge is found an almost bewildering
 complexity of plant and animal forms. Exotic plant forms of the typical
 southern swamp are seen. Some of the over 200 species of birds are also
 shown. Inter-Jr.-Sr. High
- A032 Our Natural Resources
 Union County Outdoor Education Center. A follow-up material concerning our natural resources.



Cat. No. Description A033 Outdoor Activities Collection Environmental Science Center, Minnesota. A collection of 20 short term unique outdoor activities is offered in this package. The subject of a few of the activities is sand, rotting fruit, a light bulb, minnows, and goldenrod gland galls. Grades 1-12. H067 Outdoor Education Copyright 1963. By Julian W. Smith, Reynold Carlson, George W. Donaldson, and High B. Masters. The out-of-doors, with the treasure of activity it offers, is one of America's most precious resources. This book is for people with a vital interest in that treasure. A065 Outdoor Education at the Deserted Village Union County Outdoor Education Center. AO 34 Outdoor Education on Your School Grounds Norman F. Marsh. Outdoor education is learning out-of-doors those facts, themes, and concepts that can best be learned outside the classroom. B043 The Park Idea and Ecological Reality By F. Fraser Darling. Explains the national park idea and how it should be able to work. S LIOA People and Their Environment Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 1-3. A043 People and Their Environment Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 4-6. A038 People and Their Environment Outdoor Laboratory. Copyright 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 2-12. P32 Pets Singer SVE Pet Rabbit 1. Parakeets 6. 2. Collie & Pups Hamster 3. Goldfish \mathtt{Cat} 4. Ducklings Turtle АОЫЬ Photography for Kids Environmental Science Center. This guide includes complete instruction for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stop-



ping time with a camera, seeing interesting patterns, and using light.

Description Cat. No. F053 Pigeons Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Each film-loop in the series is a field trip, an exploration which will encourage your students to begin their own projects or to find living specimens to bring to class. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop. ВОРТ Pioneering By Boy Scouts of America. Tells how to tie knots in ropes, make pulleys out of bare necessities, build log bridges, and other types of pioneering construction. B076 Planning a Nature Center Copyright 1966. Published by the Nature Centers Division, National Audubon Society. To help local government agencies, private groups, and interested individuals properly develop these projects. Byron L. Ashbaugh, Associate Director, Nature Centers Divisions, National Audubon Society, has prepared a thoroughly practical guideline on planning the nature center. A045 Plant Study Union County Outdoor Education Center. Follow-up study of plants. H055 Pocket Guide to Archery Copyright 1967. Published by the Stackpole Company. By Howard T. Sigler. Steer beginners to the right equipment, stance, practice techniques sighting for field and target shooting. A046 Pond Life Study Union County Outdoor Education Center. Follow-up activities concerning the study of ponds. B0116 The Public Domain The United States Printing Office. A brief historical sketch of the great land inheritence and how it has enchanced a nation. но88 Reading the Woods Copyright 1969. Published by the Stackpole Company. By Vinson Brown. More surely than a palmist reads a lifeline, wood walkers -or those passing by car--can read the past, present, and a great deal about the immediate future of a given forest area with these explicit directions for finding and understanding the clues left by



HO73

56

mature and man.

Recognizing Native Shrubs

Copyright 1966. Published by Stackpole Company. William C. Grimm.

Cat. No.

Description

- Recreation or Wreck-Creation
 Good Outdoor Manners Association (GOMA) A 25-minute program of
 35mm color slides with taped commentary presents the problems of
 abuse and damage to outdoor recreation areas and the costs to the
 taxpayer. Photographs of scenic beauty, animals, and geological
 formations. There are suggestions as to how damage can be avoided
 and what actions can be taken by individuals, organizations, or
 communities to protect recreation areas.
- FO64 Rock

 Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological priniciples governing the entire world. Super 8 cartridge color film-loop.
- The Role of Trees in the Environment
 Imperial Film Company, Inc. (1) Trees: Earth's Largest Life
 Forms (2) The Life Cycle of Trees (3) Trees and Physical Environment (4) Trees and Living Environment. This series provides the
 classroom with a serious photographic essay on the tree as a life
 form. The tree, rather than smaller plants, was chosen because
 the widespread geographic distribution of the trees is not confused
 by a widely varying basic structure. Inter-Jr. High 4 filmstrips,
 4 records.
- Gli Romance of the Flowers
 Maynard Reece. Puzzle with more than 500 pieces. Grades 4-6.
- F067 Sand

 Backyard Ecology Series. Ealing Corporation. At the beach, is the sand as lifeless as it appears? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
- A050 Science and Conservation in the Field

 J. Weston Walch, Publisher. By Harold R. Hungerford. To help the teacher plan and execute science instruction in the field.
- DO12 The Sierra Club Wilderness Handbook
 Copyright 1968. Published by Ballantine Books, Inc. By David
 Brower. A guide to successful camping and travel in the wilderness.
- HO57 Skills for Taming the Wilds
 Copyright 1967. Published by the Stackpole Company. By Bradford
 Angier. Offers the complete lowdown on civilizing the wilderness
 while traveling light and making do with little. For all outdoorsmen
 who like to live next to nature a bit.



Cat. No.	Description
A067	Soil Conservation United States Department of Agriculture. Outdoor learning at school. August, 1970.
AOSIA	Soil Study Union County Outdoor Education. Follow-up material showing how to study soil.
P26	Spring Wild Flowers Singer SVE 1. Jack-in-the Pulpit 2. White Trillium 3. Dogtooth Violet 4. Bloodroot 5. Skunk Cabbage 6. May Apple 7. Blue Violet 8. Spring Beauty
но59	Streamer Fly Tying and Fishing Copyright 1960. Published by the Stackpole Company. By Joseph D. Bates Jr. Shows how to use the right streamer of bucktail, how to fish flies in any depth or current of water, from ponds to beaches using the right tackle, and how to use it for best results.
A051B	Student's Handbook Union County Outdoor Education Center, New Jersey. Camp Minisink. An example of a perfect camp-out for youngersters.
B053	Survival in the Woods Union County Outdoor Educational Center. Tells how to apply first aid, and how to eat wild foods in the woods.
A052	A Syllabus for an Introduction to Ecology for Elementary Teachers Published by Southeastern Pennsylvania Outdoor Education Center. A course of study for undergraduate students in outdoor education.
но61	Teaching Kids to Shoot Copyright 1966. Published by the Stackpole Company. By Henry M. Stebbins. Safe ways to get youngsters started right in practicing fundamental skills for lifelong enjoyment in using rifles, shotguns, handguns.
FO€∪	Tidepool Backyard Ecology Series. Ealing Corporation. What is left in the rocky pools when the tide goes out? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
B071	Trail Planning and Layout Copyright 1967. Published by National Audubon Society. By Byron L. Ashbaugh. Drawing by Robert F. Holms. The National Audubon Society has long stressed the value of and the need for more effective out-



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door interpretation, both in method and technique, and has itself employed effective teaching techniques in its own program of nature education at Audubon camps and centers.

- FO54 Trees
 - Urban Ecology Series. Ealing Corporation. Each film-loop in the series is a field-trip, an exploration which will encourage your students to begin their own projects. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- A056 Using the Natural Environment of the City as a Curriculum Development Operation: New York. Bureau of Curriculum Development; Board of Education; City of New York. Resource guide for urban and outdoor education. Grades K-8.
- F058 Vacant Lots

Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.

- Values of Hunting and Fishing in Arizona
 Copyright 1967. Published by the Arizona Board of Regents. By
 William C. Davis. Provides current information for use in improving
 the management of the state's sport fish and game resources and the
 outdoor recreation which they support.
- Walls as Habitats
 Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- F06l Water in the City
 Urban Ecology Series. Ealing Corporation. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- Sol9 Wild Flowers
 J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.



Cat. No.	Description
но6Ц	Wilderness Cookery Copyright 1963. Published by the Stackpole Company. By Bradford Angier. Furnishes recipes and advice for more complete outdoor meals.
Cl2	Wildflowers of North America Copyright 1967. National Wildlife Federation. Forty-eight color illustrations of wildflowers of North America with a brief description of each flower.
но65	Wildwood Wisdom Copyright 1945. Published by the MacMillan Company. By Ellsworth Gaeger. A practical, comprehensive, authoritative guide to camping and woodsmanship for both experiences woodman and beginning camper.
F026	The Wisdom of Wildness Guidance Associates. Students see wilderness through their own experience and are asked to reevaluate the meaning of progress. Teacher's guide and filmstrips with records.
D026	Woodall's Travel-Camping the Four Seasons Copyright 1969. Published by Simon and Schuster. By Woodall Publishing Company. Things to do and places to see in every state and season plus nearby campground information.
A058	Woodland Crafts Union County Outdoor Educational Center. Step-by-step instructions showing how to make: 1. Prints of leaves and plants 2. Plaster casts of footprints
A062	Y.M.C.A. Day Camping National Standards and Desirable Practices.
B063	You and Your Lawmaker Published by the Shooting Sports, Inc. A citizenship manual for sports- men. Sportsmen must take a more active interest in legislation affecting the broad field of outdoor recreation.
P16	Zoo Animals Singer SVE 1. Elephant 2. Chimpanzee 3. Giraffe 4. Hippototamus 5. Lion 6. Rhinoceros 7. Tiger 8. Mountain Goat
F043	Let's Explore a Lawn Exploring the World of Nature Series. Group 1. Singer SVE. Common weeds, desirable grasses, effect of too much fertilizer. Animal life in lawn and what it does. 51 frames. Inter-Jr. High



Cat. No.

Description

HO75 Air Conservation

Copyright 1967. American Association for the Advancement of Science Report of the Air Conservation Commission on air conservation for laymen interested in this subject.

SOOl Air Pollution

J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of posters accompanying slides.

DOOGA Air Pollution

Published by Addison Wesley. P. O'Donnell, Lavaroni Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6.

DO29 Air and Water Pollution

Copyright 1969. Published by Washington Square Press, Inc. Gerald Leinwand. Each year, water and air pollution takes its toll-causing disease, shortening lives. The cost in human suffering is incalculable; the annual economic cost is <u>several</u> billions of dollars.

FO33 America's Urban Crisis

Group 1. Singer SVE. A forceful survey of pressing environmental problems. Students examine urban dilemas where industrial and technological achievements and personal irresponsibility have created by-products that menace the quality of urban life. Set of 6 filmstrips, 3 records. Jr-Sr High full color filmstrips

- 1. The Roots of Our Urban Problem
- 2. The Air Pollution Menace
- 3. Water Pollution -- A Complex Problem
- 4. Solid Waste--A New Pollutant
- 5. The Transportation Crisis
- 6. The Housing Crisis

HO19 Before Nature Dies

Jean Dorst. One of the world's most distinguished zoologists treats the entire earth as a single unit, he marks clear what must be done on an international scale if man's suicidal drive to destruction is to be halted.

HO87 The Careless Atom

Copyright 1968, 1969. Houghton Mifflin Company. Sheldon Novick. Is our headlong commitment to nuclear reactors a threat to the future as well as a clear and present danger? Is the possible saving in our electricity bills worth the risk to life and health? Sheldon Novick believes that the public should know what is happening and is quite capable of understanding the scientific facts if they are properly presented.



Cat. No.

Description

GO7B Dirty Water

Copyright 1970. Urban Systems, Inc. The Water Pollution Game. A game of environmental consciousness. Teaches people of all ages about ecology and water pollution. A player wins by successfully controlling water polluion.

FO40 The Ecological Crisis

Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating discussions. Set of 6 filmstrips, 3 records, 6 teacher guides. Jr.-Sr. High

- 1. Population Statistics
- 2. Population Trends
- 3. Some Ecological Considerations
- 4. Evolution and Extinction
- 5. Pesticides
- Pollution

DOO4 Ecology--Life, Struggle, Survival

Copyright 1970. Addison-Wesley Publishing Company. L. McCombs, N. Rosa. An introductory study of the science of ecology. Suitable for studies on population, pollution, conservation changing urban life, Eco-political action with relevance for today's concerned students. Grades 7 & 8.

DO27 Environmental Conservation

Copyright 1959, 1968. Published by John Wiley and Sons, Inc. Raymond F. Dasmann. This book is an attempt to look at our environment and human problems from the viewpoint of conservation. It is an attempt to provide a factual basis on which action to improve the environment can be taken.

FOl3 Environmental Crisis

Student National Education Association. 5 filmstrips, 5 records, guide.

- 1. Environmental Problem
- 2. Interrelationships of Pollution: Insecticides, automobiles
- 3. Interrelationships of Pollution. Sewage, fertilizer
- 4. Animal Wastes and Ecology
- 5. Pollution

FO21 Environmental Pollution: Our World in Crisis

Wards Natural Science Establishment, Inc. Explores the nature of the problems of pollution and some of its consequences. Teacher's guide.

- 1. Nature of the Crisis
- 2. Atmospheric Pollution
- 3. Land Pollution
- 4. Freshwater Pollution
- 5. Marine Pollution
- 6. Pollution Control



Cat. No.

Description

H038 Freedom Books

Copyright 1970. Published by Bowmar. Bill Martin. Social Science books for intermediate and senior high grades. The ecological crisis of our time demands that children engage in provocative studies. Freedom books help children keep faith with the "American Dream" in face of criticisms, doubts, failures, and massive problems. These books must be ordered as a set.

- 1. Freedom's Apple Tree
- 2. I Reach Out in the Morning
- 3. Gentle, Gentle Thursday
- 4. I am Freedom's Child
- 5. Spoiled Tomatoes
- 6. America, I Know You
- 7. Adam's Balm
- 8. Poor Old Uncle Sam
- 9. It's America For Me
- 10. Once There Were Bluebirds
- 11. Teacher's Guide
- A015 Give Earth a Chance

Minnesota Environmental Sciences Foundation, Inc. A series of six booklets on degradation of natural environment.

- a. Dirty Air
- b. Trash is Taking Over
- c. Sounds and Silence
- d. Pesticides are Perilous
- e. Tragedy in the Laundromat
- f. Troublesome Tailpipes
- HO84 God's Own Junkyard

Copyright 1964. Peter Blake. In four brilliant and devastating chapters, Peter Blake sets forth the case against the collusion of politics, business, and public indifference which is depredating the American landscape and in five additional chapters, masterfully documents in pictures the evidence supporting his contention that the townscapes, landscapes, roadscapes, carscapes, and skyscapes of America are being laid waste by venality, vulgarity, and general if not systematic, "uglification."

DOLL Man's Impact on the Global Environment

This Report of the Study of Critical Environmental Problems presents the results of an interdisciplinary examination of the global climate and ecological effects of man's activities. The focus is on environmental problems which have worldwide significance.

FO29 Man's Natural Environment: Crisis Through Abuse
Guidance Associates. Illustrates the pollution crisis through
specific examples such as Santa Barbara oil leak and Lake Erie.
Teacher's guide, filmstrips, and records.



Cat. No. Description BO 34 Minnesota Pollution Control Regulations for the control of wastes from livestock feedlots, poultry lots and other animal lots. D006C Noise Pollution Published by Addison-Wesley. P. O'Donnel, C. Lavaroni, L. Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6. Nuclear Power and the Environment BO 39 By United States Atomic Energy Commission. The AEC has prepared this report to discuss for nuclear power plants those matters that appear to be the basis for this concern, and in the process, hopefully to put them into better perspective. Our Environment Battles Water Pollution воло Copyright 1969. Dr. Charles E. Renn. Describes the changes that go on when waters are polluted. It will also describe the process that restores their usefulness. DOLL Our Mistreated World Published by the Wall Street Journal. Case histories of man's pillaging of nature. ВОД2 Our Polluted Planet Copyright 1968. Published by Ambassador College Press. By Ambassador College Research Department. Polluted air, water, and earth. Smog is no longer a joke -- it's a killer. Learn what the solution will be.

- DO21 Our Plundered Planet Fairfield Osborn
- G19 Pollution
 ABT Associates, Inc. Educational game.
- F032 Pollution

 Set of 6 color filmstrips and 3 records.

 1. The Polluters 4. Land

 2. Air 5. Noise
 - 3. Water 6. The Problem is Now
- Pollution Abstracts
 Volume 2, Number 1, February, 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. Will fit the needs of readers interested in the current state of environmental actions. The interested citizen, student, and industrial or governmental planner. With indexes.



Cat. No.

Description

- DO50 Pollution Abstracts
 - Volume 2, Number 2, April, 1971. William C. Farmer. Provides the more detailed technical material which is needed by researchers in universities, corporations, and government agencies. Will fit the needs of readers interested in the current state of environmental actions, the interested citizen, student, and industrial or governmental planner. With indexes.
- DO42 Population Bomb

Copyright 1968, 1969, and 1970. By Dr. Paul R. Ehrlich. Dr. Ehrlich, a qualified scientist, clearly describes the dimensions of the crisis in all its aspects—air, food, water, birth control, death control, our total environment and a realistic evaluation of the remaining options.

HO95 Population Resources Environment

Copyright 1970. W. H. Freeman & Company. Paul Ehrlich, Anne Ehrlich. This book is the first comprehensive, detailed analysis of the world-wide crisis of overpopulation and the resulting demands on food, resources, and the environment. The Ehrlichs demonstrate the problems of modern society, such as environmental deterioration, hunger, resource depletion, and war are closely interconnected and that together they constitute a challenge without precedent in human history.

DO22 Quiet Crisis

Copyright 1963. Published by Avon. Steward Udall. In this book, the former Secretary of the Interior tells the tremendously important and often deeply moving story of those who have fought tirelessly against the appalling industrial fouling of air, water, land, the wanton destruction of beauty, and the ever-increasing encroachment on open space. The author suggests ways to combat and overcome the destructive tendencies still operative in our society.

BO49 Radioactive Wastes

United States Atomic Energy Commission. By Charles H. Fox. For Americans to understand the vital force they are to discharge thoughtfully as their responsibilities as citizens and if they are to realize fully the myriad benefits that nuclear energy offers them.

DO43 Silent Spring

Copyright 1962. Rachel Carson. Silent Spring is a devastating attack on human carelessness, greed, and irresponsibility. It should be read by every American who does not want it to be the epitaph of a world not very far beyond us in time.



POLLUTION

Cat. No.

Description

GO7A Smog

Urban Systems, Inc. Teaches people of all ages about air pollution. The purpose of the game is to acquaint the players with some of the complexities with which a local administrator must deal in controlling the quality of the air over his town. While the most important sources of air pollution are automobiles and the smoke emitted by industries which burn sulfur-containing fuels, the players soon discover that it is neither wise nor possible to outlaw all gasolineengine automobiles or restrict industry.

- HO66 This Little Planet
 - Copyright 1970. Published by Charles Scribner & Sons. Edited by Michael Hamilton. In this book three prominent scientists and three distinguished theologians explore the unrecognized possibilities for a contemporary ethic world's problems of pollution and scarcity.
- B055 The Trouble with Trash

 Caterpillar. Gives possible solutions as to what to do with the problem of excess refuse that is a growing menace to our environment.
- SO16 Visual Pollution
 - J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
- SO18 Water Pollution
 - J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.
- DOO6B Water Pollution
 - Published by Addison-Wesley Publishing Company. P. O'Donnell, C. Lavaroni, L. Lindberg. Book constitutes excellent supplements and resource materials for both science and social studies programs. For grades 5 & 6.
- FO60 What's in the Air?
 - Urban Ecology Series, Faling Corporation. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop
- BO64 Workbooks Addressed to Social Issues Engendered by the Environmental Crisis. Institute for Public Information. A series of workbooks addressed to social issues engendered by the environmental crisis. These workbooks will provide basic information, list a few additional sources, and stress the role of scientific and technical information in evaluating and solving environmental problems.
 - 1. Air Pollution
 - 2. Water Pollution
 - 3. Environmental Effects of Weapons Technology
 - 4. Hunger
 - 5. Nuclear Explosions in Peacetime
 - 6. Pesticides
 - 7. Environmental Costs of Electric Power
 - 8. Environmental Education, 1970



POLLUTION

Cat. No.

Description

F035

Young Scientists Investigate Pollution Singer, SVE. A unique approach to the study of atmospheric and water pollution. Students tell of their science-fair projects in which they analyzed the serious consequences of air and water pollution. Set of 4 filmstrips, 2 records, 4 guides. Inter-Jr.-Sr.

- 1. Smog and Plant Growth
- 2. Air Pollution and Lung Tissue
- 3. Measuring Water Pollution
- 4. Fresh Water from the Sea



Cat. No.

Description

- HO17 America's Changing Environment
 Copyright 1967, 1970. Edited by Roger Revelle and Hans H. Landsberg.
 In this book twenty economists, political scientists, city planners,
 and conservationists discuss the causes of these blighting conditions,
 how serious they are, what society thinks about them, and how they
 can be dealt with in the American system of values and through
 American political processes.
- FO33 America's Urban Crisis
 Group 1. Singer SVE. A forceful survey of pressing environmental problems. Students examine urban dilemas where industrial and technological achievements and personal irresponsibility have created byproducts that menace the quality of urban life. Jr.-Sr. High. Set of 6 filmstrips, 3 records.
 - 1. The Roots of Our Urban Problem
 - 2. The Air Pollution Menace
 - 3. Water Pollution -- A Complex Problem
 - 4. Solid Waste--A New Pollutant
- A072 Animal Adaptation to Environment

 Mîlwaukee Public Schools. A visit to the outdoor education mobile
 laboratory. A teacher's guide. A large housetrailer which will be
 brought to a school upon request. It is intended to serve as a
 teacher-in-service training center as well as a resource for students.
- HO91 The Children of Frankenstein
 Copyright 1970 by Indiana University Press. By Herbert J. Muller. A
 primer on modern technology and human values. "Just what has modern
 technology done to, as well as for people?" is the central question
 of this original and provocative book.
- Guidance Associates. Describes the effects of urban pollution, noise, and economic handicaps of city government. Explores experimental approaches to solving problems. Teacher's guide and filmstrips with records.
- DO37 The Citizen's Guide to Planning
 Copyright 1961, 1962, 1963, 1964, 1967, and 1969. By Herbert Smith:
 The purpose of this book is to set forth the meaning of planning in terms understandable by all interested laymen.
- DO39 The Citizen's Guide to Urban Renewal
 Copyright 1962, 1963, 1965, 1968, and 1970. By Carl G. Lindbloom.
 The message of this modest book is to gain understanding for the
 professional working in the field and to help the citizen become aware
 of what is required to make a successful urban renewal program, and
 therefore how he might help in that effort.



Cat. No.

Description

- DO38 The Citizen's Guide to Zoning
 Copyright 1965, 1970. By Herbert Smith. This volume is prepared
 as a companion piece to Citizen's Guide to Planning and The Citizen's
 Guide to Urban Renewal. It is not designed as a technically exhaustive
 analysis but is, as the title implies, offered for the use of the
 average citizen who would like to know something about this important
 function of local government and about his responsibility with respect
 to it.
- American Science and Engineering, Inc. The City is about cityness.
 Its purposes are: To help young children form an idea of what a city is, what happens in it, how it changes; to make them aware that the form of the city and the shape of life in it are related. Kit includes: wooden buildings, magnetic board, ditto masters, teacher's guide, picture pool-36 pictures, 4 magic windows, records, films, and books.
- F062 The City as a Human Habitat
 Urban Ecology Series. Teacher's guide and suggested lesson plan. Super
 8 cartridge color film-loop.
- So22 The City at Night

 Architectural Color Slides. Shows cities from all over the world and gives a striking picture of the beauty of our new electrified urban environment. (Coordinated with the book, The Language of Cities, by Fran P. Hosken, The Macmillan Company, September 1968.) Slides are in carousel drum with coordinated lecture notes.
- R19 City Sounds
 American Science and Engineering, Inc. 33 1/3 rpm. For use with the kit The City, number G21 in the section on Urban Environment in this catalog.
- SO24 City Spaces for People Around the World
 Published by Franziska Porges. Slides illustrate a neglected need of
 our cities today: a place for people to meet. "City Spaces" shows
 the use of urban space around the world for many different purposes.
 A text is supplied to initiate a series of discussions which can be
 designed around this presentation. The slides also can be used without the text as illustration for the use of urban space.
- Foo6 Conservation in the City

 A study of an excavation site shows that conservation means changing land where necessary to provide homes for people. Experiments with trees and water reveal the need for conserving open spaces in the cities. Color filmstrip series. Encyclopedia Britannica Educational Corporation. Teacher's guide.
 - 1. Part I Underfoot

3. Part III Overhead

2. Part II Eyelevel



Cat. No.

Description

- FO57 Cracks in the Pavement
 Urban Ecclogy Series. Ealing Corporation. One does not need to
 live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology
 within his immediate neighborhood. Each film-loop in the series
 is an exploration which will encourage your students to find living
 specimens to bring back into class for further examination. Teacher
 guide and suggested lesson plan. Super 8 cartridge color film-loop.
- JO6 Design and Environment
 R. C. Publications, Inc. An interprofessional magazine for architects, engineers, city planners, landscape architects, and designers.
 Published quarterly.
- Designing Education for Tomorrow's Cities

 Copyright 1970. Holt, Rinehart, and Winston, Inc. By Mario Fantini,
 Milton A. Young. The authors vigorously examine current educational
 systems and find them outmoded and inadequately structured. Consiering major strategies for reforming these anachronistic systems, the
 authors use as a case study the development of the Fort Lincoln New
 Town school system which has been incorporated into this model city
 located outside Washington D.C.
- B017 Discovering Your Environment

 Myron Chase. Purpose: To create involvement, understanding and willingness to work and pay for environmental improvements.
- A083 Earth Corps Environmental Study Kit
 Scholastic Book Services. Kit I. LOOK AROUND YOU. Helps the child
 to develop critical awareness of his surroundings. The child learns
 to distinguish between what is pleasant and what is unpleasant and
 to see why some things in his environment are unpleasant. Kit
 includes: student activity books, transparencies, poster, photos,
 7" LP record, individual song sheets, and teaching manual. For
 grades 1-3.
- A082 Earth Corps Environmental Study Kit
 Scholastic Book Services. Kit II. FIRST FOLLOW NATURE. Explores
 in greater depth the reasons some environments are pleasant and
 others are unpleasant. The child looks at his home, the street on
 which he lives on, his neighborhood, and his city. Kit includes:
 student activity books, transparencies, poster, photos, 7" LP record,
 individual song sheets, and a teaching manual. Grades 4-6.
- HOOl Ecologic -- Economic Analysis for Regional Development
 Copyright 1970. Walter Isard. Collier -- Macmillan. A study of the
 relationship between the principle economic and ecologic factors
 affecting life in an urban environment.



Cat. No.	<u>Description</u>
FOĻO	The Ecological Crisis Singer SVE. An excellent new filmstrip series takes a serious look at current environmental problems and their causes. Factual statistics are dramatized and full-color photographs illustrate the situations analyzed. This series creates awareness, stimulating discussions. Set of 6 filmstrips, 3 records, 6 guides. JrSr. High 1. Population Statistics 4. Evolution and Extinction 2. Population Trends 5. Pesticides 3. Some Ecological Considerations 6. Pollution
S003B	Ecology of the City J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.
FOll	Ecology and Man Series III. McGraw-Hill. Filmstrips with teacher's guide. 1. The Management of Soil 4. Human Ecology 2. The Management of Water 5. The Ecology of Farming 3. Competitive Land Use 6. Man-Managed Ecosystems
DO31	Environment and Change the Next Fifty Years Copyright 1968 by Indiana University Press. Commissioned and edited by William R. Ewald, Jr. Offers realistic goals toward which urban planning may be directed if human society is to fulfill its need and capability for advancement.
F028	Environment: Changing Man's Values Guidance Associates. Analyzes the need for fundamental changes in our attitudes and relationships to the environment. Teacher's guide with filmstrips and records.
A064	Environmental Education American Institute of Architects. A resource materials book of man- made environment.
HIOl	Environmental Geology: Conservation, Land Use Planning, and Resource Management. Harper and Row, Publishers. By Peter T. Flawn. Its general subject-long one of prime importance to geologists, ecologists, and conservationistsrecently has become a major concern of the man in the street, a viable issue cherished by politicians and would-be office holders, and a growing preoccupation of architects, sociologists, reformers, urban designers, and national planners.



A071

Milwaukee Public Schools. A visit to the outdoor education mobile laboratory. A teacher's guide. A large house-trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students.

Environmental Inquiries

Cat. No.

Description

P18 A Family at Work and Play

Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strenth stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.

DO46 The Federal Bulldozer

Copyright 1964. McGraw-Hill Company. By Martin Anderson. Professor Anderson presents the facts of the urban renewal program. He concludes his discussion with an analysis of the program's aims, its authority, its morality, and its rationalization.

HO38 Freedom Books

Copyright 1970. Published by Bowmar. By Bill Martin. Social Science books for intermediates and senior high grades. The ecological crisis of our time demands that children engage in provocative studies. Freedom books help children deep faith with the "American Dream" in face of ctiticisms, doubts, failures, and massive problems. These books must be ordered as a set.

- 1. Freedom's Apple Tree
 - I Reach Out in the Morning
- 3. Gentle, Gentle Thursday
- 4. I am Freedom's Child
- 5. Spoiled Tomatoes

- 6. America, I Know You
- 7. Adam's Balm
- 8. Poor Old Uncle Sam
- 9. It's America for me
- 10. Once There were Bluebirds
- 11. The Teacher's guide

HO85 Freeways

Copyright 1966. By Lawrence Halprin. In the long run, the design of a great freeway is an intuitive act of the most demanding and imprecise kind. Even the terms for freeways are not fixed or agreed upon. Freeway, expressway, highway, throughway, skyway, speedway, parkway, tollway, all are words now in use to describe the idea of a high-speed, high-capacity road with no traffic crossings at the same level.

F059 Garbage Dumps

Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.

A015 Give Earth a Chance

A series of six booklets on degradation of natural environment. By Minnesota Environmental Sciences Foundation, Inc. Grades 5-8.

- a. Dirty Air
- b. Trash is Taking Over
- c. Sounds and Silence
- d. Pesticides are Perilous
- e. Tragedy in the Laundromat
- f. Troublesome Tailpipes



Cat. No.

Description

H087 God's Own Junkyard

Copyright 1964. By Peter Blake. In four brilliant and devastating chapters, Peter Blake sets forth the case against the collusion of politics, business, and public indifference which is depredating the American landscape and in five additional chapters masterfully documents in picutres the evidence supporting his contention that the townscapes, landscapes, roadscapes, carscapes, and skyscapes of America are being laid waste by venality, vulgarity, and general if not systematic, "uglification."

AOLL Good Teaching Aids Audubon Aids.

- How to lead a field trip
- Natural resources in the city
- Mysteries of bird migration
- Rock stories/how to read them 9.
- Terrarium, miniature garden under glass
- Some adventures with wild plants indoors/outdoors
- Plant propagation in the classroom
- 8. Things to do in nature
- How to build a nature trail
- Trees are history books 10.
- Forecasting the weather 11.
- 12. Schoolyard laboratories
- Nature quiz electric nature 13. games

F063 Grass

Backyard Ecology Series. Ealing Corporation. This series is a guide to a child'd backyard. What is to be found in a rotting in a stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.

RO3 The Great Debate Series

Educational Sensory Programming, Inc. Overpopulation -- Government Control of Family Size? Pollution-Technology vs. Ecology. recording.

P22 How People Travel in the City

Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on on reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.

HO₄3 Human Ecology

Copyright 1966. By Jack B. Bresler. This book represents a historical approach to environmental factors that have affected man. It provides an orientation of how man had adapted, is adapting, and will adapt to these factors.

S006 Human Resources

J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards.



Cat. No.	Description
A068	Integrating Man and Land. Environmental Science Center. Manual in community planning for group participation.
F015	Interdependence of Living Things McGraw-Hill. Filmstrips with teacher's guide. 1. Introduction to Ecology 4. The Web of Life 2. Animal and Plant Communities: 5. Animal and Plant Communities: Forest Pond 3. Animal and Plant Communities: 6. Animal and Plant Communities: Field City
воо8в	It's Your World Published by the United States Department of the Interior Conservation. The landscapes and cityscapes that comprise the face of our continent present a partial statement about the state of our civilization in much the same manner as the cut of a man's clothes tells something about the man himself.
P21	Keeping the City Clean and Beautiful Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter.
G22	Kids, Cameras, and Communities Selective Educational Equipment, Inc. Basic camera kit for a group of 15 students. Includes: instructions, cameras, film, and processing equipment. Students are involved in a total productive effort in environmental awareness.
A027F	Land UseConcern, Challenge, Commitment Published by Conservation and Environmental Science Center. Edited by Norma T. Vivian and Eugene Vivian. This environmental education instruction plan (EEIP) has been prepared in answer to the demand for usable curriculum materials for developing environmental awareness in today's students. JrSr. High.
но86	The Landscape We See Copyright 1969. McGraw-Hill Company. By Garrett Eckbo. A non- technical book considers the landscape we live in as one comprehensive system of natural and man-made elements.
но96	The Language of Cities Copyright 1968. MacMillan Company. Fran P. Hosken. This book is coordinated with architectural color slides The City at Night, catalog number SO22



Cat. No.

Description

- Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock or under the leaves of the forest floor?

 This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
- FO47 Let's Explore the City
 Part 1. Exploring the World of Nature Series. Group 2 Singer SVE
 50 frames. Inter-Jr. High
- FO48 Let's Explore the City
 Part 2. Exploring the World of Nature Series. Group 2 Singer SVE
 An ecological approach to nature study. How plants help man and
 create nuisances, dependence of animals on plants, getting rid of
 pests. 49 frames. Inter-Jr. High
- Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
- Man's Habitat--The City

 Environmental Science Center, Minnesota. Enables children and young adults alike to actively investigate, discover, define, and change the extraordinarily human habitat--the city. Grades 4-9
- FO29 Man's Natural Environment: Crisis Through Abuse
 Guidance Associates. Illustrates the pollution crisis through
 specific examples such as Santa Barbara oil leak and Lake Erie.
 Teacher's guide with filmstrips and records.
- Minute Plants and Animals
 Milwaukee Public Schools. The Outdoor Education Mobile Laboratory.
 A large trailer which will be brought to a school upon request. It is intended to serve as a teacher-in-service training center as well as a resource for students. Grade 6
- P23 Moving Goods for People in the City
 Urban Life Series. Singer SVE. Large, full-color photographs on
 sturdy, extra strength stock, with a wealth of factual material on
 on the reverse side, offer teachers a valuable enrichment source
 for bringing to students information on various facets of urban life.
 8 prints. Primary-Inter.



Description Cat. No. P20 Neighborhood Friends and Helpers Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life. 8 prints. Primary-Inter. A079 Our Man-Made Environment Copyright 1970. Group for Environmental Education, Inc. An introduction to the study of the man-made environment...of how our lives are affected by our surroundings, of what we want from them, and of how we can change them to meet our needs. The first of a series developed for use in the intermediate years. FO24 The People Problem Guidance Associates. Reasons for population explosion, food shortage, housing shortage and alternative for dealing with the crisis. A042 People and Their Environment Copyright 1968, 1969. Published by the J. G. Ferguson Company. Cyril Busbee. Grades 1-3. AOL3 People and Their Environment Copyright 1968, 1969. Published by the J. G. Ferguson Company. Cyril Busbee. Grades 4-6. A037 People and Their Environment Home Economics. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 9-12. АОДО People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. Grades 7-9. AOLl People and Their Environment Social Studies. Copyright 1968, 1969. Published by the J. G. Ferguson Company. By Cyril Busbee. World History. Grades 10-12. A044 Photography for Kids Environmental Science Center. This guide includes complete instruction for using photography with children. It also includes suggested problems to pose to the children so that they will become aware of stopping time with a camera, seeing interesting patterns, and using light. HO54 Play and Interplay Copyright 1970. By Paul Freidberg. A manifesto for new design in urban recreational environment. Presentation of new concepts in urban playspace.



Cat. No. Description

- HO92 The Politics of Ecology
 Copyright 1970. E. P. Dutton and Company, Inc. By James Ridgeway.
 This book is a nationwide handbook for survival. The proposals for change suggested by the author are not meant as adjustment or reforms for controlling pollution. They represent different ways of attacking the source of pollution, thereby opening up possibilities for change.
- DO42 The Population Bomb
 Copyright 1968, 1969, 1970. By Dr. Paul R. Ehrlich. Dr. Ehrlich, a
 qualified scientists, clearly describes the dimensions of the crisis
 in all its aspects—air, food, water, birth control, death control,
 our total environment—and provides a realistic evaluation of the
 remaining options.
- R16B Preserving and Improving the Urban Environment
 Carl Feiss. One-half hour program. Distributed by Indiana University. Tape recording.
- FO64 Rock

 Backyard Ecology Series. Ealing Corporation. This series is a guide to a child's backyard. What is to be found in a rotting stump, beneath a rock, or under the leaves of the forest floor? This film reveals a tiny habitat which illustrates in miniature the basic ecological principles governing the entire world. Super 8 cartridge color film-loop.
- P19 School Friends and Helpers
 Urban Life Series. Singer SVE. Large, full-color photographs on sturdy, extra strength stock, with a wealth of factual material on the reverse side, offer teachers a valuable enrichment source for bringing to students information on various facets of urban life.

 8 prints. Primary-Inter.
- G18 Simpolis Manual
 Copyright 1970. By ABT Associates, Inc. An educational game demonstrating urban problem areas for adults and teenagers. It is designed to familiarize students with problem areas such as transportation, pollution, and housing.
- H066 This Little Planet.

 Copyright 1970. Published by Charles Scribner and Sons. Edited by Michael Hamilton. In this book three prominent scientists and three distinguished theologians explore the unrecognized possibilities for a contemporary ethic world's problems of pollution and scarcity.
- FO27 Transportation: Where Do We Go From Here?
 Guidance Associates. Explains the need to restructive transportation system as factors in the human environment. Teacher's guide with filmstrips and records.



Cat. No.

Description

- Published by Ginn and Company. Created by C. Richard Hatch Associates, Inc. This course was intended to achieve five objectives:

 1. To make students aware that the urban environment is largely the work of man. The result of human decisions that can be located and understood and that it can be changed by individual and group action. 2. To enable the student to see himself as an actor, a participant in community processes, rather than as a passive recipient in education and life. 3. To open new areas of choice by making students aware of both immediately practical and utopian urban solutions. 4. To increase the relevance of school to life in the community, in hopes of affecting the student's willingness to learn reading and arithmetic skills, and 5. To increase the teacher's know-
- Urban Landscape Design
 Copyright 1964. McGraw-Hill Company. By Garrett Eckbo. The author describes the physical landscape in which we live as one continuous experience in time and space throughout our lives. The book considers general design processes as they are applied today to specific projects. It defines landscape quality, the processes which produce it, and those which can be used to improve it.

ledge of the student's community and life style. Teacher's guide and 31 students community planning handbooks. 9 filmstrips and 6 records.

- Urban Living
 Teaching Tools Company. Poster cards. Today, the problems of both urban and nonurban settings are in some instances going unsolved because of ignorance and the misconception that we can only help the city or the suburb. Some city children have never been outside a concrete setting; whereas others have never left the farm, small town, or suburb. The stress of these poster cards is to prepare the child to cope with a multitude of settings. Judgement of "good" or "bad" should be avoided. 20 photographs.
- HO63 The Urban Scene: Human Ecology and Demography
 Copyright 1965. By L. F. Schnore. Collier-Macmillan. Collection of
 20 papers dealing with ecology and metropolitan growth and decentralization.
- A056 Using the Natural Environment of the City as a Curriculum Development Operation: New York. Bureau of Curriculum Development; Board of Education; City of New York. Resource guide for urban and outdoor education. Grades K-8.
- A059 Vacant Lot Studies
 Environmental Science Center, Minnesota. This lesson united the disciplines of social studies, ecology, and mathematics around the study of a vacant lot. Grades 5-9.



Cat. No.

Description

FO58 Vacant Lots

Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.

- SO21 The Visual City
 - Macmillan Company. A one-school-hour presentation, coordinated with the book, The Language of Cities, by Fran P. Hosken, published by the Macmillan Company, September 1968. Together, the The Visual City and The Language of Cities provide a basic background for the study of the urban scene. Four groups of 80 slides each in carousel drums, with coordinated lecture notes. Parts 1-4.
- Walls as Habitats
 Urban Ecology Series. Ealing Corporation. One does not need to live in the suburbs or the country to study living things firsthand. Even a city child can discover a rich and varied ecology within his immediate neighborhood. Each film-loop in the series is an exploration which will encourage your students to find living specimens to bring back into class for further examination. Teacher guide and suggested lesson plan. Super 8 cartridge color film-loop.
- F061 Water in the City
 Urban Ecology Series. Ealing Corporation. Teacher's guide and suggested lesson plan. Super 8 cartridge color film-loop.
- DO25 We Can Save Our Cities
 Copyright 1967. Published by Scholastic Book Services. By Civic
 Education Service Staff. Edited by Caly Coss. How cities began and
 all their problems, such as; transportation, sanitation, education,
 crime rate, economy, etc. How you can help.
- Workbooks Addressed to Social Issues Engengered by the Environmental Crisis. Institute for Public Information. A series of workbooks addressed to social issues engendered by the environmental crisis. These workbooks will provide basic information, list a few additional sources and stress the role of scientific and technical information in evaluating and solving environmental problems.

 1. Air Pollution

 2. Water Pollution
- A027D The World Around Them

Published by Conservation and Environmental Studies Center. Edited by Eugene Vivian and Norma T. Vivian. The purpose of this series of environmental education components is to provide urban teachers with materials which can be used to create an awareness and concern for urban environmental problems on the part of the students.



Cat. No. Description H103 The World of Tomorrow McGraw-Hill Book Company. Kenneth Goldstein. Using the latest developments of today's science as a starting point, Mr. Goldstein describes the possible future uses of laser beams for communication, of computers that operate entire factories, automatic highways that guide automobiles. The reader will find this book a fascinating, informative guide to the future -- a future more astounding than science fiction. A073 Your Urban Environment Milwaukee Public Schools. Outdoor Education Mobile Laboratory. Large house-trailer which will be brought to a school upon request. Intended to serve as a teacher-in-service training center as well as a resource for students. Teacher's guide. Grade 5. D005 Environments of Man Copyright 1968. Published by Addison-Wesley Publishing Company. Jack B. Bresler. S016 Visual Pollution J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative poster cards.



Cat. No.	Description	<u>on</u>	
S002	American Birds J. Weston Walch, Publisher. Poguide.	ortland,	Maine. Slides with teacher's
POI .	Animal Babies McGraw-Hill. Teacher's guide 1. Scorpion Mother and Babies 2. Plant Bugs of Different Age 3. Stink Bug Mother and Babies 4. Ants of all Ages 5. Frog with Tadpoles 6. Lizard Mother and Babies 7. Mother Hen and Chicks 8. Mother Bird and Babies 9. Kangaroo Mother and Baby 10. Elk and Calf 11. Lion Cubs 12. Monkey Mother and Baby		
PO2	Animal Defenses McGraw-Hill. Teacher's guide 1. Flight 2. Weapons 3. Biting 4. Natural Armor 5. Case Making 6. Sharp Spines	7. 8. 9. 10. 11.	Clumping Puffing Up Poisonous Slime Bluff
P03	Animal Disquises McGraw-Hill. Teacher's guide 1. Camouflage on the Ground 2. Camouflage on Tree Bark 3. Color Matching 4. Flower Imitation 5. Imitation of a Lichen 6. Imitation of a Twig	8. 9. 10.	Turning Aside an Attack False Faces Warning Colors
F002	Animals of the Forest Series McGraw-Hill. Filmstrips with i 1. The Black Bear 2. The Beaver 3. Squirrels 4. The Racoon 5. Animal Tracks	dentifi.	cation.
COI	Animals of North America Copyright 1967. National Wildl illustrations of animals of Nor of each.		



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Cat. No.	Description
P2l4	Animals Without Backbones Singer SVE 1. Octopus 5. Scorpion 2. Ground Beetle 6. Snail 3. Crayfish 7. Starfish 4. Millipede 8. Orange Garden Spider
B002	Bandtail Pigeons By the Arizona Big Game Bulletin. Gives a brief summary on the habits of these pigeons. Tells most popular places to hunt, how to prepare for eating.
B003	Bear By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the bear. Tells size, and most popular hunting grounds, how to prepare for eating.
B00l4	Bighorn Sheep By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the bighorn sheep. Tells size, and most popular ways to prepare the sheep for eating.
GO2	Bild-a-Bird Barton-Cotton, Inc. Grades 1-3.
CO 2	Birds of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of birds of North America; brief description of each bird.
ROl	The Birds World of Song Ansley, Hudson, and Sandra. Folkways Record.
HO20	The Bobcat of North America Copyright 1958. Published by the Stackpole Company. Stanley Young A complete study of the bobcat from every angle, spiced with annecdotes from the author's own personal experience.
B005	Boom and Bust Printed October, 1967. Jerry Dan and Steve Gallizioli. The story of the Chircahua Whitetail Deer.
POL	Butterfly and Frog McGraw-Hill. 1. The Eggs are Laid 2. The Eggs Hatch 3. The Caterpillars Grow Larger 4. Caterpillar Prepares to Pupate 5. The Pupa State 6. Butterfly Comes Out 7. The Adult Butterfly 8. Tadpoles Grow Inside Eggs 9. Tadpole Grows Hind Leggs 10. Tadpole Grows Front Leggs 11. Almost a Frog 12. Young Frogs



Cat. No.	Description
G1 0	Colorwheel National Wildlife Federation Songbird Identification Wheel.
P33	Common Birds Singer SVE 1. Great Horned Owl 5. Mourning Dove 2. Blue Jay 6. Brown Thrasher 3. Cardinal 7. Robin 4. Redwing Blackbird 8. Hairy Woodpecker
P27	Common Insects Singer SVE 1. Monarch Butterfly 2. Red-Legged Grasshopper 3. Cicada 4. Dragonfly 5. Ant 6. Housefly 7. Honeybee 8. Mosquito
G03	Concentration National Wildlife Federation. Wildlife cards. Grades 1-3.
НО31	Crusade for Wildlife Copyright 1951. Published by the Stackpole Company. James Trefethen. A story of how the buaffalo and other once-threatened species were saved and brought back to abundance.
НО33	The Deer of North America Copyright 1956. Published by the Stackpole Company and the Wildlife Management Institute. Present history, legend, habits, characteristics range, anatomy, conservation, hunting tips for; white tail, black tail, and mule deer.
B013	The Desert Bighorn Sheep in Arizona Copyright 1956, 1960, 1965. Prepared and published under the Federal Aid in Wildlife Restoration Act, Project W-53-R. John P. Russo. Tells all habits, eating, breeding, normal size of herds, and all other information needed about the Bighorn Sheep in Arizona.
B015	Desert Wildlife Copyright 1959. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, W-62-R. J. T. Wright. Tells the type of climate, amount of water and vegetation that our wildlife needs. Tells about wildlife habitat in Arizona.
BO18	Doves By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the dove. Tells size of, most popular ways to prepare for eating. Most popular hunting grounds also.
НОЗЦ	The Ducks, Geese, and Swans of North America Copyright 1942, 1953, 1967. Published by the Stackpole Company. F. H. Kortright. Full description and life story for each kind of



Cat. No.	Description	
	duck, goose, and swan of North A	merica.
B019	Elk (Wapiti) By the Arizona Big Game Bulletin habits of the antelope. Tells t ways to prepare for eating.	. Gives a brief summary on the he size of, and the most popular
роо8	examples and approaches to the p	e Bunnell. Provides constructive roblems involved and to allow man able with other species of the globe.
P05	Familiar Birds Singer SVE. Familiar birds, the 1. Ruby Throated Hummingbird 2. Bobwhite Quail 3. Eastern Kingbird 4. Mallard Duck	ir young, and nest. 5. American Goldfinch 6. Scarlet Tanager 7. Red-Shaped Flicker
P06	Familiar Fresh Water Fish Singer SVE. Teacher's guide. 1. Yellow Perch 2. Northern Pike 3. Brown Bullhead 4. Largemouth Bass	 Brook Trout Carp Common Shiner PanfishBlue Gill, Rockbass, Black Crappie, Pumpkinseed
P31	Farm and Ranch Animals Singer SVE. 1. Dairy Cows 2. Hen and Chicks 3. Horse and Foal 4. Turkey	5. Geese 6. Sheep and Lambs 7. Hog and Shoats 8. Beef Cattle
HOO 2	A Field Guide to Animal Tracks Copyright 1954. Published by Ho Over 1,000 illustrations show tr mals and representative birds, i	ughton Mifflin Company. Olaus Murie. ack patterns of North American mam- nsects, and reptiles.
н003	A Field Guide to the Birds Eastern Copyright 1947. Published by Ho Peterson. Over 1,000 illustrati the characteristics of birds when	ughton Mifflin Company. Roger Tory ons and descriptions. Emphasized
HOOL4	A Field Guide to the Butterflies Copyright 1951. Published by th B. Klots. All species of butter 100th meridian, identified and i	e Houghton Mifflin Company. Alexander flies of North America, east of the llustrated.
ноо6	A Field Guide to the Mammals Copyright 1964. Published by Ho	ughton Mifflin Company.



Cat. No. Description William H. Burt and Richard P. Groossenheider. Illustration and identification for North American mammals. H007 A Field Guide to Reptiles and Amphibians Copyright 1958. Published by Houghton Mifflin Company. Roger Conant. An up-to-date guide to reptiles and amphibians of eastern North America. RO2 A Field Guide to Western Bird Songs Houghton Mifflin Company. Set of three records. HOT A Field Guide to Western Birds Copyright 1959. Published by Houghton Mifflin Company. Roger Tory Peterson. Descriptions and illustrations of more than 700 species. H015 A Field Guide to Western Reptiles and Amphibians Published by Houghton Mifflin Company. Robert C. Stebbins. illustrated guide directed to field identification in western North America. SOOL Fish Resources J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide and illustrative set of poster cards. B075 Furbearers Non-Game Animals Prepared by the Arizona Game and Fish Department. B026 Guide to Improvement of Arizona Rangeland Issued by the Cooperative Extension Service and the Agriculture Experiment Station of the University of Arizona. A guide telling how the rangeland should be improved. B027 Habitat Improvement National Wildlife Education Federation. Copyright 1959. Gives key to game abundance. S010 Insects J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide. PO7 Insects of Garden and Cropland Singer SVE. Teacher's guide 1. Ladybird Beetle 5. Asparagus Beetle 2. Cotton Boll Weevil 6. Corn Earworm Spotted Cucumber Beetle 3. Colorado Potato Beetle 7. Aphid Squash Vine Borer



Cat. No.	Description		
P08	Insects of Home and Neighborhood Singer SVE. Teacher's guide 1. Termite 2. Black Vine Weevil 3. Cockroach 4. Cynthia Moth	7.	Mealworm, Darkling Beetle Japanese Beetle Fruit Fly Elm Borer
во 28	Javelina By the Arizona Big Game Bulletin. of the javelina. Tells size of, a javelina for eating.	Giv and m	es a brief summary on the habits ost popular ways to prepare the
BO 29	The Javelina in Arizona Theodore Knipe. Prepared and publication Federal Aid in Wildlife Restoration 1956, 1960, 1964. Tells the eatistic of herds, and all information Arizona.	on Ac ng an	t, Project W-53-R. Copyright d breeding habits, the normal
G05	Jigsaw Puzzles National Wildlife Federation 1. Cardinal 2. Canada Goose		Red-Bellied Woodpecker Grizzly Bear
P09	Kinds of Animals McGraw-Hill. Teacher's guide 1. Sea Anemones 2. Land Snail 3. Spider 4. Centipede 5. Insect 6. Starfish	9. 10.	Frog Snake Bird Elephant
но44	Kinship With All Life Copyright 1954. Published by Har Experiences showing how animals of people who understand them.		
P11	Large Animals of North America Set 1. Teacher's guide. Singer S 1. Bison 2. American Pronghorn 3. Wapiti 4. Amrican Bighorn Sheep	5. 6.	Mountain Lion Grizzly Bear
P12	Large Animals of North America Set 2. Teacher's guide. Singer S 1. Brown Bear 2. Polar Bear 3. Doll Sheep 4. Mountain Goat	5. 6.	Caribou Black-tailed Deer Moose Musk Ox

Cat. No.	<u>Description</u>
P13	Large Sea Animals Singer SVE. Teacher's guide 1. Sea Lion 2. Ribbon Seal 3. Walrus 4. Sea Elephant 5. Porpoise 6. White Whale 7. Manatee 8. Green Sea Turtle
но46	The Life of the Desert Copyright 1966. Published in cooperation with the World Book Encyclopedia. Ann and Myron Sutton. This volume explains the vital interrelationships that exist between living things and the physical environment of vast desert regions. Over 1,000 color illustrations.
G08	Lotto National Wildlife Federation. Wildlife Educational. Grades 2-4.
SOLIA	Mammals J. Weston Walch, Publisher. Portland, Maine. Slides with teacher's guide.
B032	Mearn's Quail By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the quail. Tells the size of, and most popular ways to prepare for eating.
B033	Migratory Waterfowl in Arizona Copyright 1959. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, W-70-R. Wesley B. Fleming. Tells all habits and other information concerning migratory waterfowl in Arizona.
B035	Mountain Lion By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the mountain lion. Tells size of, and most popular hunting grounds.
B036	The Mule Deer in Arizona Chaparral Copyright 1958, 1959, 1965. Prepared and published under the provisions of the Federal Aid in Wildlife Restoration Act, Project W-71-R. By Wendell G. Swank. Tells the eating and breeding habits, the normal size of herds and all other information needed about the Mule Deer in Arizona.
B037	Now That You've Got it, What're You Gonna' Do with it? Published by the Arizona Game and Fish Department. Bill Sizer. Tells how to take care of game and other wildlife after you have seized it, in order to preserve it for eating.
Gll	Old Maid National Wildlife Federation. Wildlife cards. Grades 1-3.



<u>Cat. No</u> .	<u>Description</u>
но53	Pheasants in North America Published by the Stackpole Company. Durwood L. Allan. Answers questions concerning these farm game birds. It of particular interest to students of wildlife, game and fish technicians and administrators, game breeders and sportsmen.
B045	Pronghorn Antelope By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the antelope. Tells the size of and the most popular ways to prepare for eating.
B047	Quail Research in Arizona Arizona Fish and Game Deparmtent. Steve Gallizioli. Gives detailed information about the habits of the quail.
B048	Rabbits and Squirrels By the Arizona Big Game Bulletin. Gives a brief summary on the habits of the rabbits and squirrels. Tells the size of and most popular hunting grounds.
Aol ₄ 8	Readings in Wildlife and Fish Conservation By Louisiana Wildlife and Fisheries Commission. A study designed for an experimental high school course.
P15	Reptiles and Amphibians Singer SVE 1. Toad 2. Box Turtle 3. Alligator 4. Bullfrog 5. Leopard Lizard 6. Spotted Salamander 7. Five-Lined Skink 8. Garter Snake
но56	Saving Our Wildlife Crowell-Collier Press. J. J. McCoy. Illustrated book explains how and why so much American wildlife has been destroyed.
B051	Shooting for the Future By the National Shooting Shooting Sports Foundation, Inc. Distributed by Arizona Game and Fish Deparmtnet. Facts about wildlife and the values of hunting, protecting our wildlife and organized hunting.
Ьη	Small Animals of Sea and Shore Singer SVE. Teacher guide 1. Sea Anemone 2. Sea Horse 3. Moray Eel 4. Jelly Fish 5. Squid 6. Rock Crab 7. Sponge 8. Stingray
G15	Songbird Dominoes National Wildlife Federation. Grades 3-5.



Cat. No.	Description	
G16	Songbird Trading Card Album National Wildlife Federation. Roger Tory Peterson.	
RO6	Songbirds of America Published by Houghton and Mifflin Company. Dr. Allen and Dr. Kellog. (Album and Record)	
ClO	Songbirds of North America Copyright 1968. National Wildlife Federation. Forty-eight color illustrations of songbirds of North America with a brief description of each bird.	
RO4	Sounds of the American Southwest Folkways Recrods and Service Corporation. (Birds, frogs, Insects, javalinas, etc.)	
R05	Sounds of the Animals Folkways Records. Audible communication of zoo and farm animals.	
RO7	Sounds of Insects Folkways Records.	
B054	The Terrible Lesson of the Kaibab Copyright 1967. Reprinted from the National Wildlife. James B. Trefethen. Tells how the Kaibab National Forest nearly died and how it finally recovered.	
GOl	Trading Card Album National Wildlife Federation. Animal trading card album. Roger Tory Peterson.	
но62	Unexpected Treasure Copyright 1968. Published by M. Evans and Company. Hope Sawyer Buyukmich: with Hans Fantel. A story of a family who owned a small 250-acre wildlife refuge in New Jersey. There, they live among all the wildlife, trying to preserve it.	į
B057	Waterfowl By the Arizona Big Game Bulletin. Gives a brief summary on the habits of waterfowl. Tells most popular places to hunt for.	
G17	Western Birds Donald Leo Malick. Puzzle with 500 pieces. Grades 4-6.	41.55.00
B058	Western HawksWhat They Look Like in the Air Distributed by National Audubon Society. Pictures of hawks open- winged.	



Cat. No.	Description
P25	Wild Animals Singer SVE. 1. Red Fox 2. Cottontail Rabbit 3. White-tailed Deer 4. Striped Skunk 5. Muskrat 6. Gray Squirrel 7. Opossum 8. Woodchuck
во62	Wild Turkey By the Arizona Big Game Bulletin. Gives a brief summary on the habits of wild turkey. Tells the size of and most popular ways to prepare for eating. Best places for hunting also.
S020	Wildlife J. Weston Walch, Publisher. Portland, Maine. Slides with teacer's guide and illustrative poster cards.
DO41	Wildlife in America Copyright 1964, 1969. Peter Matthiessen. The first history of man's effect on the fishes, amphibians, reptiles, birds, and mammals of the North American continent. With more than 100 line drawings of the rare, extinct and vanishing species.
во68	Wildlife Habitat Improvement National Audubon Society. Joseph J. Shomon. Wildlife is a renewable natural resource. It can be managed and in certain instances greatly increased.
F026	The Wisdom of Wildness Guidance Associates. Students see wilderness through their own experience and are asked to reevaluate the meaning of progress. Teacher's guide and filmstrips with records.

